Identifying playing talent in professional football using artificial neural networks

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Abstract

The aim of the current study was to objectively identify position-specific key performance indicators in professional football that predict out-field players league status. The sample consisted of 966 out-field players who completed the full 90 minutes in a match during the 2008/09 or 2009/10 season in the Football League Championship. Players were assigned to one of three categories (0, 1 and 2) based on where they completed most of their match time in the following season, and then split based on five positions including full backs (n = 205), centre backs (n = 193), centre midfielders (n = 205), wide midfielders (n = 168) and forwards (n = 195). 340 performance, biographical and esteem variables were analysed using a Stepwise Artificial Neural Network approach. The models correctly predicted between 72.7% and 100% of test cases (Mean prediction of models = 85.9%), the test error ranged from 1.0% to 9.8% (Mean test error of models = 6.3%). Variables related to passing, shooting, regaining possession and international appearances were key factors in the predictive models. This is highly significant as objective position-specific predictors of players league status have not previously been published. The method could be used to aid the identification and comparison of transfer targets as part of the due diligence process in professional football.

Introduction

Coaches and decision makers in professional football have traditionally used subjective observations to assess the performance of their team, to review the strengths and weaknesses of future opponents and to identify potential signings (Carling, Williams and Reilly, 2005). Match analysis research into the individual's performance in football has focused heavily on the physical demands of the sport (Carling, 2013). Research led by sport scientists with a heavy focus upon the physical aspects of performance in football has not managed to identify key predictors of match outcome or team success (Bradley et al., 2016; Carling, 2013).

However, studies investigating physical performance during matches have also incorporated technical elements and provided some insights into the successful performance of players and teams (Bradley et al., 2013; Bradley et al., 2016; Dellal et al., 2010; Dellal et al., 2011). Technical factors have been identified that are prominent predictors of team success and match outcome. Shots, shots on target and ball possession are the most commonly reported predictors (Castellano, Casamachina and Lago, 2012; Lagos-Penas, Lago-Ballesteros, Dellal and Gomez, 2010; Liu, Gomez, Lago-Penas and Sampaio, 2015). There has been a heavy emphasis on the attacking aspects of play linked to success and more detailed analysis is required into the defensive aspects of play to gain a greater understanding of the game.

Following on from the research into team success and physical profiles, there has been an increasing interest in the technical profiles of players. Studies have found positional differences in Ligue 1 in France, the Premier League in England and in Spain's La Liga (Dellal, Wong, Moalla and Chamari, 2010; Dellal et al., 2011). The development of advanced computer systems has supported a greater understanding of position profiles in football. However, most of the research to date has used subjective methods to select variables for analysis (Taylor, Mellalieu and James, 2004) or they have replicated indicators used in other studies (Andrzejewski, Konefal, Chmura, Kowalczuk and Chmura, 2016). Using subjective criteria selection rather than exploring a broad spectrum of the data points has meant that many variables have yet to be assessed. Therefore, the impact of these variables upon playing success and career progression is unknown.

A broader analysis of player performance and career progression has been provided by using artificial neural networks to assess a wide range of variables (Barron, Ball, Robins and Sunderland, 2018). Artificial neural networks have been shown to be better at identifying

patterns in complex non-linear data sets than forms of regression analysis and they are capable of generalizing results to solve real world problems (Basheer and Hajmeer, 2000; Lancashire, Lemetre and Ball, 2009; Tu, 1996). In a football context, artificial neural networks have been shown to be capable of creating models that can differentiate between specific groups and identify key variables that predict career progression (Barron et al, 2018). Previous studies though have been limited by assessing players regardless of position and their accuracy could be improved by making assessments of each position and the creation of position-specific career progression models.

To the authors' knowledge there has not been an objective study carried out to develop a position-specific predictive model that could support the scouting and recruitment process in professional football. The efficient and effective identification and assessment of transfer targets is a key aspect of any professional football club and requires a thorough due diligence process. Therefore, the aim of the current study was to develop an objective model to identify position-specific key performance indicators in professional football that predict out-field players league status using an artificial neural network.

Methods

Players and Match Data

The basis of the current study followed Barron *et al's* (2018) method but looked to build on it and focus on position-specific assessments of players. The sample consisted of 966 out-field players (mean \pm SD age and height: 25 ± 4 yr, 1.81 ± 0.06 m) who had completed a full 90 minutes in the English Football League Championship during the 2008/09 and 2009/10 seasons (Table 1). Technical performance data and biographical data was collected using ProZone's MatchViewer software (ProZone Sports Ltd., Leeds, UK), the official Football

League website (www.efl.com) and Scout7 Ltd's (Birmingham, UK) site. The Prozone MatchViewer system was used to collect performance data due to its accurate inter-observer agreement for the number and type of events (Bradley, O'Donoghue, Wooster and Tordoff, 2007). The data collected from the Prozone MatchViewer software was made available by STATS LLC (Chicago, USA). Institutional ethical approval was attained from the Non-Invasive Human Ethics Committee at Nottingham Trent University.

In total, 536 variables were collected in including the total number, accuracy (% success), means, medians and upper and lower quartiles of passes, tackles, possessions regained, clearances and shots. Additional data on total appearances, playing percentage, total goals and assists, international appearances and heights was also collected. The data set originally included 536 variables but low variance statistics were removed. After removing low variance data points, the data set included 340 variables for comparison. Each player's data was converted into mean 90-minute performance data before they were assigned to one of three categories (group 0, group 1 and group 2).

Player Grouping

Players were allocated to one of five positions (full back, centre back, wide midfielder, central midfielder or attacker) based on where they spent most of their playing time during the season (See Table 1). They were then assigned to one of three categories (group 0, group 1 and group 2) based on where they went on to complete most of their match time during the following season. The first category (group 0) included the players who completed most of their match time in a lower league during the following season. The second group (group 1) included those players who completed most their match time in the English Football League Championship during the following season and the final category (group 2) contained the

players who progressed to complete most their match time in the English Premier League during the following season.

Sample sizes for each comparison were balanced to have an equal number of cases using a random number selector (i.e. 24 full backs were selected from group 0 to have an equal number of cases for comparisons to group 2). Players who played on loan during the 2008/09 and 2009/10 seasons were included in the study but players who moved to a club outside England were excluded due to the complications in assessing the merits of foreign competitions against those in England. The five positions for each category of playing status were subsequently analysed using a Stepwise Artificial Neural Network approach to identify the optimal collection of variables for predicting playing status.

Artificial Neural Network Model

The artificial neural network modelling was based on the approach previously used in gene profiling with breast cancer data (Lancashire et al., 2009) and used in assessing player performances in the Football League Championship (Barron et al., 2018). It used in house code written in Microsoft visual basic 6 to call Statistica 10.0 (Statsoft Inc., Tulsa, USA) artificial neural network model at each loop of the stepwise procedure and output the results in a text format.

Before training the artificial neural network, the data was randomly split (60% for training purposes, 20% for validation and 20% blind test cases). A Monte-Carlo cross validation procedure was used to avoid over-fitting of the data.

The artificial neural network modelling involved a multi-layer perceptron architecture with a feed-forward back-propagation algorithm. This algorithm used a sigmoidal transfer function and weights were updated by feedback from errors. Results were provided for the average test performance and the average test error. The average test performance indicates the percentage of test cases that are correctly predicted. The average test error is the root mean square error for the test data set, this indicates the difference between the values predicted by the model and the actual values of the test data set (Salkind, 2010). Further information on the artificial neural network model can be viewed in the supplementary information.

Results

Analysis using the artificial neural network created fifteen position-specific models to predict out-field player's league status. The models correctly predicted between 72.7% and 100% of test cases (Mean prediction of models = 85.9%), the test error ranged from 1.0% to 9.8% (Mean test error of models = 6.3%). Fourteen models correctly predicted 75% or more of the test players league status with an error of 9.6% or less (Table 2). The fifteen models, created in total, contained between five and twenty variables to predict the players league status with 134 variables in total being required to make the position models. The most prominent set of variables were those related to the players passing ability, with 48 of the 134 variables (35.8%) being passing statistics. The next most prominent type of variable was related to players shooting. In total, twenty variables (14.9%) related to shooting were selected in the models. Statistics related to regaining possession accounted for eleven of the variables (8.2%) selected. Variables related to international appearances were selected nine times (6.7%). A full outline of the categories of variables selected can be viewed in full (Table 3).

Full Back Models

The performance of the full back models as a group were the lowest of the five positions (Average test performance = $78.4\% \pm 8.0\%$ and average test error = $8.6\% \pm 1.7\%$) (Table 4). The group 0 v1 comparison had the lowest average test performance and highest test error out of all the models created (Average test performance = 72.7% and average test error = 9.8%). Total appearances and mean percentage of backwards passes successful were key variables in the model (Table 5). The group 1 v 2 comparison had an average test performance of 75% and a test error of 9.3%. The percentage of sideways passes successful (upper quartile) and median total shots were the most prominent variables in the model (Table 6). The best full back model was for group 0 v 2 which had an average test performance of 87.5% and a test error of 6.6%. The mean goals scored and minimum headers were the two most prominent factors in the model (Table 7).

Centre Back Models

The performance of the centre back models as a group had an average test performance of $94.4\% \pm 5.1\%$ and an average test error of $3.5\% \pm 2.3\%$. The group 0 v 1 model had an average test performance of 93.3% and an average test error of 4.1% using twenty variables. The percentage of successful passes in the opposition half (upper quartile) and shooting accuracy (upper quartile) were the most prominent variables in the model (Table 8). The group 1 v 2 model had the lowest average test performance and highest test error of the three centre back models (average test performance = 90.0% and average test error = 5.5%). Backwards passes (lower quartile) and maximum short passes were the top two factors in the model (Table 9). The group 0 v 2 model had the highest average test performance of any model and the lowest test error of any model (average test performance = 100% and test error = 1.0%). The group 0 v 2 centre back model contained eighteen variables with 0-6 assists

mean (group $0 = 0.1 \pm 0.1$, group $2 = 0.2 \pm 0.1$), mean shots on target inside the box (group $0 = 0.2 \pm 0.2$, group $2 = 0.3 \pm 0.2$) and minimum penalty area entries (Group $0 = 0.2 \pm 0.4$, Group $2 = 0 \pm 0$) being key variables (Table 10).

Wide Midfielder Models

The wide midfield models group average test performance was $84.8\% \pm 13.2\%$ with an average test error of $6.3\% \pm 2.5\%$. The group 0 v 1 model had an average test performance of 79.4% and a test error of 8.2%. The maximum percentage of unsuccessful headers and forward passes successful (upper quartile) were the biggest predictors in the model (Table 11). The group 1 v 2 model had an average test performance of 77.8% and a test error of 7.4%. U21 international caps and median forward passes unsuccessful were the most prominent factors in the model (Table 12). The group 0 v 2 model had the second highest average test performance and third lowest test error of all the models created (average test performance = 100% and a test error of 3.4%). The group 0 v 2 wide midfielder model contained six variables including: total goals (group $0 = 1.4 \pm 1.9$, group $2 = 5.5 \pm 3.8$), passes attempted opposition half upper quartile (group $0 = 16.2 \pm 6.3$, group $2 = 21.4 \pm 5.8$), fouls in the defensive third mean (group $0 = 0.2 \pm 0.2$, group $2 = 0.3 \pm 0.3$), total shots on target (excluding blocked) maximum (group $0 = 1.0 \pm 0.8$, group $2 = 2.6 \pm 1.1$), % forward passes successful mean (group $0 = 5.0 \pm 3.2$, group $2 = 5.2\% \pm 9.7\%$) and forward passes successful median (group $0 = 5.0 \pm 3.2$, group $2 = 6.1 \pm 2.2$) (Table 13).

Centre Midfielder Models

The best overall average was for the centre midfielder's models as a group (Average test performance = $86.1\% \pm 6.6$ and average test error = $6.8\% \pm 2.5$). The group 0 v 1 model had the lowest average test performance of the centre midfield models and had the second highest

test error across all models (Average test performance = 78.6% and average test error = 9.6%). Fouls and maximum first time passes were the most prominent variables in the model (Table 14). The group 1 v 2 model had an average test performance of 88.9% and a test error of 5.9%. Successful passes (lower quartile) and penalty area entries (lower quartile) were two key variables in the model (Table 15). The group 0 v 2 model had an average test performance of 90.9% and a test error of 4.8%. The number of starts and maximum shots on target outside the box were the highest predictors in the model (Table 16).

Attacker Models

The performance of the attacker models as a group had an average test performance of 84.7% \pm 6.6% and an average test error of 6.2% \pm 3.2%. The group 0 v 1 model had an average test performance of 80% and an average test error of 8.7%. The most prominent variables in the model were international caps and the number of touches (lower quartile) (Table 17). The group 1 v 2 model had an average test performance of 81.8% and a test error of 7.2%. U21 international caps and international caps were the two most important factors in the model (Table 18). The best average test performance for an attacker model was recorded for the group 0 v 2 model and it had the lowest overall test error of all models (average test performance = 92.3% and test error = 2.6%). The group 0 v 2 attacker model contained ten variables with total goals (group 0 = 2.7 \pm 3.0, group 2 = 10.0 \pm 6.2), blocks upper quartile (group 0 = 1.0 \pm 0.5, group 2 = 1.5 \pm 0.7) and short passes minimum (group 0 = 4.9 \pm 2.5, group 2 = 4.3 \pm 2.4) being key variables (Table 19).

Model Comparisons

The models produced comparing positions for group 0 v 1 had the lowest overall average test performance and highest test error (mean test performance = $80.8\% \pm 7.6\%$ and average test

error = $8.1\% \pm 2.3\%$). The overall average test performance across all five positions for group 1 v 2 comparisons was $82.7\% \pm 6.6\%$ and the average test error was $7.1\% \pm 1.5$. The highest overall average test performance across the five positions was for group 0 v 2 (mean test performance = $94.1\% \pm 5.6\%$ and average test error = $3.7\% \pm 2.1\%$) (Table 20). The top three models produced by the neural network were for 0 v 2 centre back (average test performance 100% and 1.0% test error), group 0 v 2 wide midfielder (average test performance 100% and 3.4% test error) and group 0 v 1 centre back (average test performance 93.3% and 4.1% test error). The means and standard deviations for key variables for the top three models can be reviewed in full (Tables 21-23).

Discussion

The aim of the current study was to develop objective models that identified position-specific key performance indicators that predict out-field players league status. The artificial neural network created fifteen position-specific models to predict out-field players league status. The artificial neural network's ability to correctly classify more than 75% of the players league status for fourteen different position comparisons is a key result. This surpasses the previous prediction rates reported using artificial neural networks in other team sports, such as those undertaken in cricket (Iyer and Sharda, 2009; Saikia, Bhattacharjee and Lemmer, 2012). Their studies could predict classification of batsmen and bowlers with accuracy levels ranging from 49% to 77%. In individual sports, artificial neural networks have been able to predict 80.2% of gymnast's future classifications based on a multi-dimensional testing process (Pion, Hohmann, Liu, Lenoir and Segers, 2017). Therefore, the current artificial neural network prediction rates are among the highest reported to date in an athlete classification study.

Passing Variables

The most prominent set of variables were those related to the players passing ability, with 48 of the 134 total variables included in models (35.8%) being passing statistics. Many passing variables have been highlighted previously as key indicators when differentiating between players of various playing levels and linked to team success (Bradley et al., 2013; Rampinini, Impellizzerie, Castagna, Coutts and Wisloff, 2009). Comparisons between players within the English football pyramid showed that players in the Premier League performed a greater number of total passes, successful passes and forward passes (Bradley et al., 2013). Out of the 48 passing variables identified in the models, 29 were related to the success of the passing variables. The passing variables related to their success were a mixture of 27 different statistics accounting for the direction (forwards, sideways and backwards) of the pass, the origin of the pass (own half or opposition half) and the mean, median, minimum, maximum and upper and lower quartile figure for different variables.

In further agreement with Bradley and colleagues (2013) findings, thirteen of the passing variables were related to forward passing. Forward passes have been shown to have the lowest chance of success when compared to sideways or backwards passes (Szczepanski and McHale, 2016). Yet, to create scoring opportunities and in turn score goals players are required to progress the play with forward passing. Variables relating to forward passes appeared in models for full backs (group 0 v 1 and group 0 v 2), centre backs (group 0 v 1), wide midfield (group 0 v 1, group 1 v 2 and group 0 v 2), centre midfield (group 0 v 1 and group 0 v 2) but did not feature prominently in any models for attackers. This would appear logical as attackers play in more advanced areas and have fewer opportunities to perform

forward passes. The prevalence of forward passing variables for a number of positions and different comparisons highlights its importance in playing success.

The current study also highlighted two variables related to short passing with the maximum and minimum variables being selected in two models (group 1 v 2 centre back and group 0 v 2 attacker). Research into factors that distinguish between top four and bottom four English Premier League teams highlighted short passes as a key variable (Adams, Morgans, Sacramento, Morgan and Williams, 2013). Specifically, the mean frequency of successful short passes played by centre backs and full backs was the biggest factor differentiating between the two groups.

Using the artificial neural network methodology has highlighted some overlap between factors previously identified by research articles. The current study has also identified novel findings for variables that have not previously been analysed or identified as key variables. Eight passing variables were related to those in the opposition half and they appeared in six different position models (group 0 v 1 centre back, group 0 v 1 and 0 v 2 centre midfield, group 0 v 1 and 0 v 2 wide midfield and 0 v 2 attacker models). Six of the variables were also related to first time passes played and they appeared in the group 0 v 1 and 0 v 2 centre back, group 1 v 2 full back, group 0 v 1 and 1 v 2 centre midfield and group 0 v 1 attacker models. Passes in the opposition half indicate possession taking place in more offensive pitch locations and could indicate the involvement of players in attacking moves. The ability to pass the ball accurately over a range of distances and directions is a key factor in performance and for differentiating between players of varying ability. This is accepted knowledge amongst coaches but the models have accurately identified specific key variables and provided an objective assessment of their impact on league status.

Shooting Variables

The next most prominent type of variable was related to players shooting ability. In total, twenty variables (14.9%) related to shooting were selected in the models. This agrees with previous research into team success in football, with total shots and shooting accuracy being the most commonly reported predictors in matches (Castellano et al., 2012; Lagos-Penas et al., 2010; Liu et al., 2015). Surprisingly, all positions except attacker included shooting variables in the models created in the current study. However, one of the attacker models (group 0 v 2) did include total goals as a key variable. Many teams now prefer to play with one lone attacker in their line-up that spreads the need for scoring goals throughout the team and the requirements of the centre forward position could be changing as a result (Adams et al., 2013).

Attacking Entries

Other attacking variables selected as part of the models were related to crossing and entries into the final third and penalty area. Final third and penalty area entries were selected three times and in three different models. Crosses are a factor that have been repeatedly identified as being key to differentiating between successful and unsuccessful teams (Lagos-Penas *et al.*, 2010; Lagos-Penas *et al.*, 2011). They have not been identified as key when differentiating between players of different performance levels previously, they were only selected twice in the current study meaning they did not play a prominent role in the position models. The mean number of crosses were selected in the group 0 v 2 attacker model (crosses mean group $0.1.0 \pm 0.8$, group $2.1.75 \pm 1.23$). The inclusion of the number of crosses in the

attacker model and the higher values reported for group 2 may offer more evidence for the evolving role of the attacker.

As well as crosses, final third and penalty area entries were selected three times and in three different models. Previous research has indicated that penalty area entries differentiate between winning and losing teams (Ruiz-Ruiz, Fradua, Fernandez-Garcia and Zubillaga, 2013). However, in the current study they were selected in one model for centre backs (group 0 v 2), the centre backs from players dropping down to a lower playing level reported higher values (minimum penalty area entries group 0.2 ± 0.4 , group $2.0.0 \pm 0.0$). The identification of minimum penalty area entries in the centre back model and group 0 having a higher value is a novel finding. It may appear counter intuitive but centre backs who drop down to a lower level may play in teams who use a more direct style of play and play longer passes from their centre backs as opposed to building the play with shorter passing combinations.

Defensive Variables

The models also highlighted several defensive variables as key predictors of league status. Statistics related to regaining possession accounted for eleven of the variables (8.2%). Previous research into match outcomes and players technical and tactical ability has heavily focused on the attacking aspects of play (Mackenzie and Cushion, 2013), passing (Adams et al., 2013; Szczepanski and McHale, 2016) and possession (Castellano et al., 2012; Collett, 2013; Lagos-Penas et al., 2010; Liu et al., 2015). A limited number of defensive variables have been researched or identified that are linked to success. A balanced defensive shape (Tenga, Holme, Ronglan and Bahr, 2010), defensive reaction after losing possession (Vogelbein, Nopp and Hokelmann, 2014) and regaining possession in the final third have been identified previously (Almeida, Ferreira and Volossovitch, 2014).

The current study highlighted possession won based on the minimum, median, maximum and upper quartile variables as being key predictors of league status. Possession gained upper quartile and interceptions median and maximum were also selected as key variables in models. The defensive variables were not selected as part of any of the full back models. They were commonly selected as part of the wide midfield (group 0 v 1 and group 1 v 2) and attacker models (group 1 v 2 and group 0 v 2). This may appear counter intuitive and these factors would not normally be assessed when profiling more attacking positions within the team. Modern playing philosophies valuing high pressing tactics from forward players to regain possession in more advanced areas of the pitch, this may explain the importance of these factors in wide midfield and attacker models within the current study (Perarnau, 2014).

International Recognition

Other key variables selected throughout several models relate to international appearances, international caps and U21 international caps were selected nine times (6.7%) in total. This is a novel finding as previous assessments of player's performances have limited themselves to match performance and season totals of performance data. Previous research into international recognition and team or playing success has not been undertaken to the author's knowledge. However, international recognition has been found to be linked with player salary allocation, particularly at the higher levels of the game (Frick, 2011).

Position-Specific Models

The current study created a number of strong predictive models for player's league status, there were also some key findings relating to the prediction rates of specific positions. Three of the five positions had very similar levels of classification accuracy (centre midfield 86.1%,

wide midfield 85.7% and attacker 84.7%) but the full back position's overall accuracy was only 78.4% and the centre back position's overall accuracy was 94.4%. The full back results are still an important finding but below the levels reported for other positions. The group 0 v 1 full back model had the lowest classification accuracy of all the models and the group 1 v 2 full back model had the second lowest classification accuracy. The full back position is one that requires a complex set of technical and tactical skills as it requires a wide array of attacking and defensive qualities (Bush, Archer, Hogg and Bradley, 2015).

Recent evaluations of the changes within performance data for playing positions has shown extensive changes over time in the Premier League (Bush et al., 2015). Pronounced increases were found for the levels of high-speed running and the distances covered while sprinting, with full backs showing the largest increases between 2006-07 and 2012-13 (Bush et al., 2015). Therefore, the full back position may be influenced more by the physical aspects of performance. This could explain the lower prediction rates for full backs due to the lack of physical tracking data being available.

Study Limitations

Strong models were identified for fourteen out of the fifteen position comparisons assessed but there are some limitations to the present study that should be addressed in future research. The match running performance data for players was not available for the current study. There is an acceptance amongst the sports science community that running performance is not a predictor of team success or match outcome (Bradley et al., 2016; Carling, 2013). However, including match running performance data could provide a higher level of classification accuracy for some of the positions assessed. Another limitation of the study is the lack of contextual data available and the inability of the data to provide a detailed

assessment for off the ball parameters. The final limitation of the study relates to the sample size for players progressing to play in the Premier League. The samples for the players progressing from the five positions to play in the Premier League were the smallest of all the groupings. Statistical power tests on similar sample sizes have reached the required levels (Lancashire et al., 2009). However, future studies should look to increase the sample available to increase confidence that the results are repeatable to new cases.

Conclusions

The current study has shown that artificial neural networks are a valid and highly effective tool to classify and predict players league status. Fourteen models across all five positions were created that provided strong prediction accuracy levels for players league status. This is an important result as it outlines an objective methodology that can aid the scouting and recruitment process in professional football. The process of identifying and recruiting players in professional football has largely been a subjective process in the past. Further research should look to combine assessments of physical and technical performance data to provide a more accurate prediction of league status. Studies should also look to create models to predict the career progression of players from multiple leagues to provide a better practical tool for scouting and recruitment purposes. The combination of subjective assessments and more objective tools could lead to a more effective overall process in the highly competitive football transfer market.

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Table 1. Biographical data represented as means and standard deviations for player groupings.

Group	Players (n)	Age (years)	Height (cm)	90 Minute Appearances	Total Minutes
Group 0 Full Back	56	24.2 ± 4.3	180.5 ± 4.4	10.1 ± 10.7	1112 ± 1040
Group 1 Full Back	125	24.9 ± 4.2	180.2 ± 4.3	20.0 ± 12.1	2603 ± 1107
Group 2 Full Back	24	25.4 ± 3.3	179.7 ± 3.6	18.5 ± 12.5	1919 ± 1200
Group 0 Centre Back	37	27.5 ± 5.1	187.2 ± 5.1	15.9 ± 10.9	15901 ± 1023
Group 1 Centre Back	131	25.6 ± 3.7	186.7 ± 4.2	22.5 ± 12.4	2186 ± 1116
Group 2 Centre Back	25	25.6 ± 3.4	187.4 ± 3.7	22.8 ± 12.0	2173 ± 1141
Group 0 Wide Midfield	42	24.4 ± 4.3	179.1 ± 5.5	6.6 ± 7.0	1119 ± 858
Group 1 Wide Midfield	103	24.6 ± 3.7	177.2 ± 5.6	12.6 ± 9.6	1840 ± 1000
Group 2 Wide Midfield	23	24.8 ± 3.7	179.2 ± 4.8	19.4 ± 11.5	2425 ± 1109
Group 0 Centre Midfield	36	25.6 ± 4.8	179.7 ± 5.1	12.4 ± 11.9	1505 ± 1147
Group 1 Centre Midfield	148	25.6 ± 3.9	178.8 ± 5.8	19.5 ± 11.1	2238 ± 1006
Group 2 Centre Midfield	21	26.3 ± 4.5	178.5 ± 4.5	25.6 ± 13.6	2693 ± 1253
Group 0 Attacker	38	26.6 ± 4.8	182.2 ± 6.5	6.2 ± 6.9	1096 ± 920
Group 1 Attacker	130	26.0 ± 3.9	181.6 ± 5.9	11.8 ± 9.3	1845 ± 931
Group 2 Attacker	27	26.2 ± 4.5	181.7 ± 5.8	13.2 ± 9.3	2081 ± 930

Table 2. Results for all models with balanced data sets. The best average test performance = 100.0% and the best average test error = 1.0% (Using a combination of eighteen variables) – Centre Back Group 0 v 2. The worst average test performance = 72.7% and the worst average test error = 9.8% (Using a combination of five variables) – Full Back Group 0 v 1.

Position	Groups	Average Test Performance (%)	Average Test Error (%)	Number of Variables
Full Back	0 v 1	72.7	9.8	5
Full Back	0 v 2	87.5	6.5	10
Full Back	1 v 2	75	9.3	6
Centre Back	0 v 1	93.3	4.1	20
Centre Back	0 v 2	100	1.0	18
Centre Back	1 v 2	90	5.5	6
Wide Midfield	0 v 1	76.5	8	10
Wide Midfield	0 v 2	100	3.4	6
Wide Midfield	1 v 2	77.8	7.4	9
Centre Midfield	0 v 1	78.6	9.6	9
Centre Midfield	0 v 2	90.9	4.8	10
Centre Midfield	1 v 2	88.9	5.9	5
Attacker	0 v 1	80	8.7	5
Attacker	0 v 2	92.3	2.6	10
Attacker	1 v 2	81.8	7.2	6
Average	NA	85.7	6.3	9.0

Table 3. Summary of the variables in all position models by grouping.

Variable Grouping	Times Selected	Selected (%)
Passing	48	35.8
Shooting	20	14.9
Regains	11	8.2
International Appearances	9	6.7
Heading	8	6.0
Fouls	5	3.7
Goals	5	3.7
Appearances	4	3.0
Entries	3	2.2
Possession Lost	4	3.0
Tackled	3	2.2
Time in Possession	3	2.2
Assists	2	1.5
Blocks	2	1.5
Clearances	2	1.5
Crossing	2	1.5
Touches	2	1.5
Balls Received	1	0.7
Possessions	1	0.7

Table 4. Comparison of overall average test performance scores from position models as means and standard deviations.

Position Comparison	Overall Average Test Performance (%)	Overall Average Test Error (%)
Full Back	78.4 ± 8.0	8.6 ± 1.7
Centre Back	94.5 ± 5.1	3.5 ± 2.3
Wide Midfield	84.8 ± 13.2	6.3 ± 2.5
Centre Midfield	86.1 ± 6.6	6.8 ± 2.5
Attacker	84.7 ± 6.6	6.2 ± 3.2

Table 5. Results for Group 0 v Group 1 Full Back balanced data set comparison. The best average test performance = 72.7% and the best average test error = 9.8% (Using a combination of five variables).

Rank	Variable	Average Test Performance (%)	Average Test Error (%)
1	Total Appearances	63.6	11.2
2	% Backwards Passes Successful (Mean)	72.7	10.6
3	Total Minutes	72.7	9.8
4	% Forwards Passes Successful (Mean)	72.7	9.8
5	Forwards Passes (Maximum)	72.7	9.8
6	Blocks (Mean)	70.5	9.9
7	% Unsuccessful Headers (Median)	68.2	10.0
8	Forward Passes Successful (Median)	68.2	10.0
9	% Passes Successful Own Half (Mean)	72.7	9.9
10	Passes Own Half 25% (Lower Quartile)	72.7	10.0

Table 6. Results for Group 1 v Group 2 Full Back balanced data set comparison. The best average test performance = 75.0% and the best average test error = 9.3% (Using a combination of six variables).

Rank	Variable	Average Test Performance (%)	Average Test Error (%)
1	% Sideways Passes Successful 75% (Upper Quartile)	60.0	11.3
2	Total Shots (Median)	60.0	10.9
3	International Caps	70.0	9.7
4	Tackled (Mean)	70.0	9.3
5	First Time Passes (Maximum)	70.0	9.1
6	Number of Possessions (Median)	75.0	9.3
7	Tackled (Minimum)	70.0	9.4
8	% Sideways Passes Successful 25% (Lower Quartile)	70.0	9.4
9	Total Assists	70.0	9.8
10	% First Time Passes Unsuccessful 25% (Lower Quartile)	70.0	9.8

Table 7. Results for Group 0 v Group 2 Full Back balanced data set comparison. The best average test performance = 87.5% and the best average test error = 6.6% (Using a combination of ten variables).

Rank	Variable	Average Test Performance (%)	Average Test Error (%)
1	Goals (Mean)	75.0	9.1
2	Headers (Minimum)	75.0	8.6
3	% Forward Passes Unsuccessful (Mean)	81.3	8.2
4	Shots Off Target (Exc. Blocked) (Maximum)	78.1	8.1
5	% Forward Passes Unsuccessful 75% (Upper Quartile)	75.0	8.2
6	U21 Caps	75.0	8.0
7	Shots Inside the Box (Mean)	81.3	7.7
8	Possession Lost (Mean)	81.3	7.0
9	Shots On Tgt Outside the Box (Maximum)	81.3	7.2
10	Total Assists	87.5	6.6

Table 8. Results for Group 0 v Group 1 Centre Back balanced data set comparison. The best average test performance =93.3% and the best average test error =4.1% (Using a combination of twenty variables).

Rank	Variable	Average Test Performance (%)	Average Test Error (%)
1	% Passes Successful Opp Half 75% (Upper Quartile)	66.7	10.9
2	Shooting Accuracy 75% (Upper Quartile)	73.3	9.3
3	% Successful Headers 75% (Upper Quartile)	80.0	7.6
4	Balls Received 75% (Upper Quartile)	80.0	7.6
5	Crosses (Median)	80.0	7.9
6	% First Time Passes Successful 25% (Lower Quartile)	80.0	6.8
7	Total Shots on Target (Mean)	86.7	6.4
8	Passes Successful Opp Half (Minimum)	86.7	6.0
9	U21 Caps	86.7	6.1
10	Shooting Accuracy 25% (Lower Quartile)	86.7	5.2
11	Medium Passes (Mean)	86.7	5.2
12	Forward Passes Successful (Minimum)	93.3	4.5
13	Total Shots on Tgt (Excluding Blocked) (Mean)	86.7	5.0
14	Goals (Mean)	86.7	4.5
15	% Unsuccessful Headers 25% (Lower Quartile)	90.0	4.7
16	Long Passes (Median)	93.3	4.5
17	% Passes Successful Opp Half (Minimum)	93.3	4.2
18	Avg Time in Possession (Mean)	86.7	4.8
19	% Forwards Passes Successful (Minimum)	86.7	4.7
20	Shooting Accuracy (Median)	93.3	4.1

Table 9. Results for Group 1 v Group 2 Centre Back balanced data set comparison. The best average test performance = 90.0% and the best average test error = 5.5% (Using a combination of six variables).

Rank	Variable	Average Test Performance (%)	Average Test Error (%)
1	Backwards Passes 25% (Lower Quartile)	70.0	10.7
2	Short Passes (Maximum)	70.0	9.4
3	Interceptions (Maximum)	80.0	8.1
4	Shots on Target Inside the Box (Mean)	80.0	6.8
5	Sideways Passes Unsuccessful (Mean)	80.0	6.6
6	Sideways Passes Successful 75% (Upper Quartile)	90.0	5.5
7	Passes Successful Own Half (Mean)	90.0	5.5
8	% Passes Successful Opp Half (Minimum)	80.0	6.3
9	% Sideways Passes Successful (Median)	90.0	6.4
10	Shots On Tgt Outside the Box (Mean)	85.0	6.6

Table 10. Results for Group 0 v Group 2 Centre Back balanced data set comparison. The best average test performance = 100% and the best average test error = 1.0% (Using a combination of eighteen variables).

Rank	Variable	Average Test Performance (%)	Average Test Error (%)
1	0-6 Assists (Mean)	80.0	8.1
2	Shots on Target Inside the Box (Mean)	80.0	5.8
3	Penalty Area Entries (Minimum)	90.0	4.4
4	International Caps	90.0	3.7
5	Long Passes 25% (Lower Quartile)	90.0	3.2
6	Shots Outside the Box (Mean)	90.0	2.9
7	U21 Caps	100.0	2.4
8	Possession Gained 75% (Upper Quartile)	100.0	1.5
9	Avg Time in Possession (Median)	100.0	1.5
10	Clearances (Maximum)	100.0	1.2
11	Shots Outside the Box (Median)	100.0	1.1
12	First Time Passes (Mean)	100.0	1.3
13	Unsuccessful Passes (Minimum)	100.0	1.4
14	Interceptions 75% (Upper Quartile)	100.0	1.3
15	Possession Gained (Minimum)	100.0	1.3
16	Shots Inside the Box 25% (Lower Quartile)	100.0	1.1
17	Total Shots on Target (Mean)	100.0	1.2
18	Tackled (Minimum)	100.0	1.0
19	Final Third Entries (Mean)	100.0	1.0
20	Medium Passes 25% (Lower Quartile)	100.0	1.3

Table 11. Results for Group 0 v Group 1 Wide Midfield balanced data set comparison. The best average test performance = 79.4% and the best average test error = 8.2% (Using a combination of nine variables).

Rank	Variable	Average Test Performance (%)	Average Test Error (%)
1	% Unsuccessful Headers (Maximum)	70.6	10.8
2	Forward Passes Successful 75% (Upper Quartile)	73.5	10.0
3	Possession Won 75% (Upper Quartile)	70.6	9.8
4	Shooting Accuracy 25% (Lower Quartile)	76.5	8.9
5	% Unsuccessful Headers 75% (Upper Quartile)	79.4	8.5
6	% Successful Headers (Median)	76.5	8.4
7	Sideways Passes Successful 75% (Upper Quartile)	76.5	8.2
8	Fouls (Mean)	76.5	8.1
9	Tackled (Maximum)	79.4	8.2
10	Passes Attempted Opp Half (Mean)	76.5	8.0

Table 12. Results for Group 1 v Group 2 Wide Midfield balanced data set comparison. The best average test performance = 77.8% and the best average test error = 7.4% (Using a combination of nine variables).

Rank	Variable	Average Test Performance (%)	Average Test Error (%)
1	U21 International Caps	66.7	10.3
2	Forwards Passes Unsuccessful (Median)	77.8	9.3
3	% Sideways Passes Unsuccessful (Median)	77.8	9.1
4	Fouls (Mean)	77.8	8.9
5	Possession Won (Maximum)	77.8	8.6
6	% Unsuccessful Headers (Maximum)	77.8	8.5
7	Backwards Passes Unsuccessful (Maximum)	77.8	8.7
8	Possession Lost (Maximum)	77.8	7.9
9	Possession Won (Minimum)	77.8	7.4
10	% Unsuccessful Headers 25% (Lower Quartile)	77.8	7.6

Table 13. Results for Group 0 v Group 2 Wide Midfield balanced data set comparison. The best average test performance = 100% and the best average test error = 3.4% (Using a combination of six variables).

Rank	Variable	Average Test Performance (%)	Average Test Error (%)
1	Total Goals	84.6	7.2
2	Passes Attempted Opp Half 75% (Upper Quartile)	84.6	6.3
3	Fouls in Defensive 3rd (Mean)	84.6	6.1
4	Total Shots on Tgt (Excluding Blocked) (Maximum)	92.3	4.5
5	% Forwards Passes Successful (Mean)	92.3	3.3
6	Forward Passes Successful (Median)	100.0	3.4
7	Tackled 75% (Upper Quartile)	92.3	3.7
8	% Unsuccessful Passes 75% (Upper Quartile)	92.3	3.6
9	Backwards Passes Unsuccessful (Mean)	92.3	3.5
10	Possession Lost (Median)	92.3	3.1

Table 14. Results for Group 0 v Group 1 Centre Midfield balanced data set comparison. The best average test performance = 78.6% and the best average test error = 9.6% (Using a combination of nine variables).

Rank	Variable	Average Test Performance (%)	Average Test Error (%)
1	Fouls	57.1	11.5
2	First Time Passes (Maximum)	64.3	10.9
3	Backwards Passes 75% (Upper Quartile)	64.3	10.6
4	Number of Touches (Median)	64.3	10.6
5	Fouls (Maximum)	64.3	10.5
6	Total Minutes	71.4	9.9
7	% Forward Passes Unsuccessful 25% (Lower Quartile)	71.4	9.6
8	Sideways Passes (Median)	71.4	9.6
9	Passes Attempted Opp Half (Minimum)	78.6	9.6

10

Table 15. Results for Group 1 v Group 2 Centre Midfield balanced data set comparison. The best average test performance = 88.9% and the best average test error = 5.9% (Using a combination of five variables).

Rank	Variable	Average Test Performance (%)	Average Test Error (%)
1	Successful Passes 25% (Lower Quartile)	66.7	10.2
2	Penalty Area Entries 25% (Lower Quartile)	66.7	9.6
3	Goals (Mean)	77.8	8.4
4	Backwards Passes Unsuccessful (Mean)	88.9	6.2
5	First Time Passes Successful (Maximum)	88.9	5.9
6	Backwards Passes (Median)	88.9	6.2
7	% Sideways Passes Successful 25% (Lower Quartile)	88.9	6.4
8	Total Shots 25% (Lower Quartile)	88.9	6.4
9	Passes Own Half (Mean)	88.9	6.9
10	Dribbles 75% (Upper Quartile)	83.3	7.2

Table 16. Results for Group 0 v Group 2 Centre Midfield balanced data set comparison. The best average test performance = 90.9% and the best average test error = 4.8% (Using a combination of ten variables).

Rank	Variable	Average Test Performance (%)	Average Test Error (%)
1	No. Of Starts	72.7	9.6
2	Shots On Tgt Outside the Box (Maximum)	81.8	8.6
3	Possession Lost (Maximum)	77.3	8.0
4	Forwards Passes (Mean)	81.8	7.2
5	Possession Won (Median)	81.8	6.0
6	Clearances 25% (Lower Quartile)	81.8	5.5
7	Total Shots on Target (Mean)	90.9	5.2
8	Total Blocked Shots (Maximum)	90.9	5.2
9	Forwards Passes (Median)	90.9	4.9

Table 17. Results for Group 0 v Group 1 Attacker balanced data set comparison. The best average test performance = 80.0% and the best average test error = 8.7% (Using a combination of five variables).

Rank	Variable	Average Test Performance (%)	Average Test Error (%)
1	International Caps	73.3	10.4
2	Number of Touches 25% (Lower Quartile)	73.3	9.2
3	First Time Passes (Maximum)	73.3	9.1
4	Blocks (Maximum)	73.3	8.9
5	Final Third Entries (Mean)	80.0	8.7
6	Passes Successful Own Half (Median)	73.3	8.9
7	% Successful Passes (Maximum)	73.3	9.2
8	Tackled 25% (Lower Quartile)	73.3	9.0
9	% Forwards Passes Successful (Minimum)	73.3	9.1
10	% Passes Successful Opp Half (Minimum)	73.3	9.1

Table 18. Results for Group 1 v Group 2 Attacker balanced data set comparison. The best average test performance = 81.8% and the best average test error = 7.2% (Using a combination of six variables).

Rank	Variable	Average Test Performance (%)	Average Test Error (%)
1	U21 International Caps	63.6	11.0
2	International Caps	72.7	9.9
3	Unsuccessful Passes (Maximum)	72.7	9.6
4	Interceptions (Maximum)	72.7	8.7
5	Possession Won (Median)	81.8	7.2
6	% Unsuccessful Passes 75% (Upper Quartile)	81.8	7.2
7	Final Third Entries 25% (Lower Quartile)	81.8	7.8
8	Tackles (Maximum)	81.8	7.4
9	% Unsuccessful Passes (Minimum)	81.8	7.5

Table 19. Results for Group 0 v Group 2 Attacker balanced data set comparison. The best average test performance = 92.3% and the best average test error = 2.6% (Using a combination of ten variables).

Rank	Variable	Average Test Performance (%)	Average Test Error (%)
1	Total Goals	76.9	7.6
2	Blocks 75% (Upper Quartile)	84.6	5.6
3	Short Passes (Minimum)	92.3	5.0
4	Passes Own Half 25% (Lower Quartile)	92.3	4.4
5	% Unsuccessful Headers (Maximum)	92.3	4.0
6	Crosses (Mean)	92.3	3.0
7	Avg Time in Possession 75% (Upper Quartile)	92.3	2.9
8	Interceptions (Median)	92.3	3.0
9	Passes Successful Opp Half 75% (Upper Quartile)	92.3	3.0
10	Backwards Passes 25% (Lower Quartile)	92.3	2.6

Table 20. Comparison of overall average test performance scores from position models as means and standard deviations.

Group Comparison	Overall Average Test Performance (%)	Overall Average Test Error (%)
Group 0 v 1 Comparisons	80.8 ± 7.6	8.1 ± 2.3
Group 1 v 2 Comparisons	82.7 ± 6.6	7.1 ± 1.5
Group 0 v 2 Comparisons	94.1 ± 5.6	3.7 ± 2.1

Table 21. Group 0 v 2 Centre Back model variables represented as means and standard deviations for all player groupings.

Variables	Group 0 Centre Back	Group 2 Centre Back
0-6 Assists (Mean)	0.1 ± 0.1	0.2 ± 0.1
Shots on Target Inside the Box (Mean)	0.2 ± 0.2	0.3 ± 0.2
Penalty Area Entries (Minimum)	0.2 ± 0.4	0.0 ± 0.0
International Caps	4.8 ± 18.3	9.2 ± 14.6
Long Passes 25% (Lower Quartile)	4.3 ± 2.2	4.9 ± 2.0
Shots Outside the Box (Mean)	0.1 ± 0.2	0.1 ± 0.1
U21 Caps	0.3 ± 0.9	3.5 ± 6.6
Possession Gained 75% (Upper Quartile)	34.2 ± 5.5	36.7 ± 5.7
Avg Time in Possession (Median)	2.4 ± 2.2	2.6 ± 0.3
Clearances (Maximum)	10.9 ± 3.2	11.4 ± 3.2
Shots Outside the Box (Median)	0.0 ± 0.2	0.0 ± 0.0
First Time Passes (Mean)	6.5 ± 1.9	7.0 ± 1.2
Unsuccessful Passes (Minimum)	1.4 ± 1.8	1.0 ± 1.2
Interceptions 75% (Upper Quartile)	29.9 ± 4.2	31.1 ± 5.3
Possession Gained (Minimum)	21.1 ± 4.9	18.5 ± 6.3
Shots Inside the Box 25% (Lower Quartile)	0.1 ± 0.4	0.0 ± 0.1
Total Shots on Target (Mean)	0.2 ± 0.2	0.3 ± 0.2
Tackled (Minimum)	0.2 ± 0.7	0.0 ± 0.2

Table 22. Group 0 v 2 Wide Midfield model variables represented as means and standard deviations for all player groupings.

Variables	Group 0 Wide Midfield	Group 2 Wide Midfield
Total Goals	1.4 ± 1.9	5.5 ± 3.8
Passes Attempted Opp Half 75% (Upper Quartile)	16.2 ± 6.3	21.4 ± 5.8
Fouls in Defensive 3rd (Mean)	0.2 ± 0.2	0.3 ± 0.3
Total Shots on Tgt (Excluding Blocked) (Maximum)	1.0 ± 0.8	2.6 ± 1.1
% Forwards Passes Successful (Mean)	53.4 ± 14.8	55.2 ± 9.7
Forward Passes Successful (Median)	5.0 ± 3.2	6.1 ± 2.2
Total Goals	1.4 ± 1.9	5.5 ± 3.8
Passes Attempted Opp Half 75% (Upper Quartile)	16.2 ± 6.3	21.4 ± 5.8
Fouls in Defensive 3rd (Mean)	0.2 ± 0.2	0.3 ± 0.3
Total Shots on Tgt (Excluding Blocked) (Maximum)	1.0 ± 0.8	2.6 ± 1.1

Table 23. Group 0 v 1 Centre Back model variables represented as means and standard deviations for all player groupings.

Variables	Group 0 Centre Back	Group 1 Centre Back
% Passes Successful Opp Half 75% (Upper Quartile)	81.2 ± 22.3	92.4 ± 13.5
Shooting Accuracy 75% (Upper Quartile)	23.5 ± 35.6	20.1 ± 33.8
% Successful Headers 75% (Upper Quartile)	51.0 ± 8.7	52.7 ± 6.6
Balls Received 75% (Upper Quartile)	16.9 ± 5.8	20.6 ± 8.9
Crosses (Median)	0.1 ± 0.3	0.1 ± 0.3
% First Time Passes Successful 25% (Lower Quartile)	59.3 ± 13.0	59.9 ± 12.7
Total Shots on Target (Mean)	0.2 ± 0.2	0.3 ± 0.3
Passes Successful Opp Half (Minimum)	0.2 ± 0.5	0.3 ± 1.0
U21 Caps	0.3 ± 0.9	1.3 ± 3.2
Shooting Accuracy 25% (Lower Quartile)	0.0 ± 0.0	1.9 ± 11.4
Medium Passes (Mean)	7.9 ± 2.9	9.6 ± 5.1
Forward Passes Successful (Minimum)	1.5 ± 1.3	1.6 ± 2.5
Total Shots on Tgt (Excluding Blocked) (Mean)	0.1 ± 0.1	0.2 ± 0.2
Goals (Mean)	0.0 ± 0.1	0.1 ± 0.1
% Unsuccessful Headers 25% (Lower Quartile)	49.0 ± 8.7	47.2 ± 6.7
Long Passes (Median)	5.5 ± 2.1	6.3 ± 2.5

Supplementary Information

The learning rate (the rate at which weights are updated as a proportion of the error) was set at 0.1 while the momentum (the proportion of the previous change in weights applied back to the current change in weights) was 0.5 and two hidden nodes (feature detectors) were used as part of the artificial neural network architecture in a single hidden layer. The maximum number of epochs (updates of the network) used was three hundred while the maximum number of epochs without improvement on the test was one hundred. This was used to prevent over fitting of the model.

List of Initial 340 Variables Included in the Study

Number	Variable
1	% Backwards Passes Successful Lower Quartile
2	% Backwards Passes Successful Mean
3	% Backwards Passes Successful Min
4	% Backwards Passes Unsuccessful Max
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11	% First Time Passes Unsuccessful Lower Quartile
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98 Balls Received Mean	
99 Balls Received Median	
100 Balls Received Min	
101 Balls Received Upper Quartile	
102 Blocks Max	
103 Blocks Mean	
104 Blocks Median	
105 Blocks Upper Quartile	
106 Clearances Lower Quartile	
107 Clearances Max	

108	Clearances Mean
109	Clearances Median
110	Clearances Upper Quartile
111	Corners Conceded Max
112	Corners Conceded Mean
113	Crosses Lower Quartile
114	Crosses Max
115	Crosses Mean
116	Crosses Median
117	Crosses Upper Quartile
118	Dribbles Max
119	Dribbles Mean
120	Dribbles Upper Quartile
121	Final Third Entries Lower Quartile
122	Final Third Entries Lower Quartile
123	Final Third Entries Max Final Third Entries Mean
124	Final Third Entries Median
125	Final Third Entries Median Final Third Entries Min
126	
	Final Third Entries Upper Quartile First Time Passes Lower Quartile
127	First Time Passes Lower Quartile First Time Passes Max
129	First Time Passes Mean First Time Passes Median
131	First Time Passes Min
131	
	First Time Passes Successful Lower Quartile First Time Passes Successful Max
133	
134	First Time Passes Successful Mean
135	First Time Passes Successful Median
136	First Time Passes Successful Min
137	First Time Passes Successful Upper Quartile
138	First Time Passes Unsuccessful Max
139	First Time Passes Unsuccessful Mean
140	First Time Passes Unsuccessful Upper Quartile
141	First Time Passes Upper Quartile
142	Forward Passes Successful Lower Quartile
143	Forward Passes Successful Max
144	Forward Passes Successful Mean
145	Forward Passes Successful Median
146	Forward Passes Successful Min
147	Forward Passes Successful Upper Quartile
148	Forwards Passes Lower Quartile
149	Forwards Passes Max

150	Forwards Passes Mean
151	Forwards Passes Median
152	Forwards Passes Min
153	Forwards Passes Unsuccessful Lower Quartile
154	Forwards Passes Unsuccessful Max
155	Forwards Passes Unsuccessful Mean
156	Forwards Passes Unsuccessful Median
157	Forwards Passes Unsuccessful Min
158	Forwards Passes Unsuccessful Upper Quartile
159	Forwards Passes Upper Quartile
160	Fouled Max
161	Fouled Max Fouled Mean
162	
	Fouled Upper Quartile Fouls
163	
164	Fouls in Defensive 3rd Mean
165	Fouls Max
166	Fouls Mean
167	Goals Mean
168	Headers Lower Quartile
169	Headers Max
170	Headers Mean
171	Headers Median
172	Headers Min
173	Headers Upper Quartile
174	Height
175	Interceptions Lower Quartile
176	Interceptions Max
177	Interceptions Mean
178	Interceptions Median
179	Interceptions Min
180	Interceptions Upper Quartile
181	International Caps
182	Long Passes Lower Quartile
183	Long Passes Max
184	Long Passes Mean
185	Long Passes Median
186	Long Passes Min
187	Long Passes Upper Quartile
188	Medium Passes Lower Quartile
189	Medium Passes Max
190	Medium Passes Mean
191	Medium Passes Median

192	Medium Passes Min
193	Medium Passes Upper Quartile
194	No. of 90 Mins App.
195	No. Of Starts
196	Number of Possessions Lower Quartile
197	Number of Possessions Max
198	Number of Possessions Mean
199	Number of Possessions Median
200	Number of Possessions Min
201	Number of Possessions Upper Quartile
202	Number of Touches Lower Quartile
203	Number of Touches Max
204	Number of Touches Mean
205	Number of Touches Median
206	Number of Touches Min
207	
	Number of Touches Upper Quartile Offsides Mean
208	
209	Passes Attempted Opp Half Lower Quartile
210	Passes Attempted Opp Half Max
211	Passes Attempted Opp Half Mean
212	Passes Attempted Opp Half Median
213	Passes Attempted Opp Half Min
214	Passes Attempted Opp Half Upper Quartile
215	Passes Lower Quartile
216	Passes Max
217	Passes Mean
218	Passes Median
219	Passes Min
220	Passes Own Half Lower Quartile
221	Passes Own Half Max
222	Passes Own Half Mean
223	Passes Own Half Median
224	Passes Own Half Min
225	Passes Own Half Upper Quartile
226	Passes Successful Opp Half Lower Quartile
227	Passes Successful Opp Half Max
228	Passes Successful Opp Half Mean
229	Passes Successful Opp Half Median
230	Passes Successful Opp Half Min
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255 Possession Lost Median 256 Possession Lost Min 257 Possession Lost Upper Quartile 258 Possession Won Lower Quartile 259 Possession Won Max 260 Possession Won Mean 261 Possession Won Median 262 Possession Won Min 263 Possession Won Upper Quartile 264 Shooting Accuracy Lower Quartile 265 Shooting Accuracy Mean 266 Shooting Accuracy Median 267 Shooting Accuracy Upper Quartile 268 Short Passes Lower Quartile 269 Short Passes Max 270 Short Passes Median 271 Short Passes Median 272 Short Passes Min 273 Short Passes Upper Quartile 274 Shots Inside the Box Lower Quartile	253	Possession Lost Max
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260 Possession Won Mean 261 Possession Won Median 262 Possession Won Min 263 Possession Won Upper Quartile 264 Shooting Accuracy Lower Quartile 265 Shooting Accuracy Mean 266 Shooting Accuracy Median 267 Shooting Accuracy Upper Quartile 268 Short Passes Lower Quartile 269 Short Passes Max 270 Short Passes Mean 271 Short Passes Median 272 Short Passes Min 273 Short Passes Upper Quartile 274 Shots Inside the Box Lower Quartile	258	Possession Won Lower Quartile
261Possession Won Median262Possession Won Min263Possession Won Upper Quartile264Shooting Accuracy Lower Quartile265Shooting Accuracy Mean266Shooting Accuracy Median267Shooting Accuracy Upper Quartile268Short Passes Lower Quartile269Short Passes Max270Short Passes Mean271Short Passes Median272Short Passes Min273Short Passes Upper Quartile274Shots Inside the Box Lower Quartile	259	Possession Won Max
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Possession Won Upper Quartile Shooting Accuracy Lower Quartile Shooting Accuracy Mean Shooting Accuracy Median Shooting Accuracy Upper Quartile Short Passes Lower Quartile Short Passes Max Short Passes Mean Short Passes Median Short Passes Median Short Passes Median Short Passes Upper Quartile Short Passes Median Short Passes Upper Quartile Short Passes Upper Quartile Short Passes Upper Quartile	261	Possession Won Median
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266 Shooting Accuracy Median 267 Shooting Accuracy Upper Quartile 268 Short Passes Lower Quartile 269 Short Passes Max 270 Short Passes Mean 271 Short Passes Median 272 Short Passes Min 273 Short Passes Upper Quartile 274 Shots Inside the Box Lower Quartile	264	Shooting Accuracy Lower Quartile
Shooting Accuracy Upper Quartile Short Passes Lower Quartile Short Passes Max Short Passes Mean Short Passes Median Short Passes Min Short Passes Upper Quartile Shots Inside the Box Lower Quartile	265	Shooting Accuracy Mean
268 Short Passes Lower Quartile 269 Short Passes Max 270 Short Passes Mean 271 Short Passes Median 272 Short Passes Min 273 Short Passes Upper Quartile 274 Shots Inside the Box Lower Quartile	266	Shooting Accuracy Median
269Short Passes Max270Short Passes Mean271Short Passes Median272Short Passes Min273Short Passes Upper Quartile274Shots Inside the Box Lower Quartile	267	Shooting Accuracy Upper Quartile
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271 Short Passes Median 272 Short Passes Min 273 Short Passes Upper Quartile 274 Shots Inside the Box Lower Quartile	269	Short Passes Max
272 Short Passes Min 273 Short Passes Upper Quartile 274 Shots Inside the Box Lower Quartile	270	Short Passes Mean
273 Short Passes Upper Quartile 274 Shots Inside the Box Lower Quartile	271	Short Passes Median
274 Shots Inside the Box Lower Quartile	272	Short Passes Min
-	273	Short Passes Upper Quartile
	274	• • • • • • • • • • • • • • • • • • • •
	275	Shots Inside the Box Max

276	
276	Shots Inside the Box Mean
277	Shots Inside the Box Upper Quartile
278	Shots Off Target (Exc. Blocked) Max
279	Shots Off Target (Exc. Blocked) Mean
280	Shots on Target Inside the Box Max
281	Shots on Target Inside the Box Mean
282	Shots On Tgt Outside the Box Max
283	Shots On Tgt Outside the Box Mean
284	Shots Outside the Box Max
285	Shots Outside the Box Mean
286	Shots Outside the Box Median
287	Sideways Passes Lower Quartile
288	Sideways Passes Max
289	Sideways Passes Mean
290	Sideways Passes Median
291	Sideways Passes Min
292	Sideways Passes Successful Lower Quartile
293	Sideways Passes Successful Max
294	Sideways Passes Successful Mean
295	Sideways Passes Successful Median
296	Sideways Passes Successful Min
297	Sideways Passes Successful Upper Quartile
298	Sideways Passes Unsuccessful Max
299	Sideways Passes Unsuccessful Mean
300	Sideways Passes Upper Quartile
301	Successful Passes Lower Quartile
302	Successful Passes Max
303	Successful Passes Mean
304	Successful Passes Median
305	Successful Passes Min
306	Successful Passes Upper Quartile
307	Tackled Lower Quartile
308	Tackled Max
309	Tackled Mean
310	Tackled Median
311	Tackled Min
312	Tackled Upper Quartile
313	Tackles Lower Quartile
314	Tackles Max
315	Tackles Mean
316	Tackles Median
317	Tackles Upper Quartile
21/	rackies Opper Quartile

318	Total Appearances
319	Total Assists
320	Total Blocked Shots Max
321	Total Blocked Shots Mean
322	Total Goals
323	Total Minutes
324	Total Shots Lower Quartile
325	Total Shots Max
326	Total Shots Mean
327	Total Shots Median
328	Total Shots on Target Max
329	Total Shots on Target Mean
330	Total Shots on Tgt (Excluding Blocked) Max
331	Total Shots on Tgt (Excluding Blocked) Mean
332	Total Shots Upper Quartile
333	U21 Caps
334	Unsuccessful Passes Lower Quartile
335	Unsuccessful Passes Max
336	Unsuccessful Passes Mean
337	Unsuccessful Passes Median
338	Unsuccessful Passes Min
339	Unsuccessful Passes Upper Quartile
340	Yellow Cards

List of 196 Variables Excluded from the Study

Number	Variable
1	% Backwards Passes Successful Max
2	% Backwards Passes Successful Median
3	% Backwards Passes Successful Upper Quartile
4	% Backwards Passes Unsuccessful Lower Quartile
5	% Backwards Passes Unsuccessful Median
6	% Backwards Passes Unsuccessful Min
7	% Backwards Passes Unsuccessful Upper Quartile
8	% First Time Passes Successful Max
9	% First Time Passes Unsuccessful Min
10	% Passes Successful Opp Half Max
11	% Sideways Passes Successful Max
12	% Sideways Passes Unsuccessful Min
13	0-6 Assists Lower Quartile
14	0-6 Assists Max

15	0-6 Assists Median
16	0-6 Assists Min
17	0-6 Assists Upper Quartile
18	1st Assist Lower Quartile
19	1st Assist Max
20	1st Assist Mean
21	1st Assist Median
22	1st Assist Min
23	1st Assist Upper Quartile
24	2nd Assist Lower Quartile
25	2nd Assist Max
26	2nd Assist Mean
27	2nd Assist Median
28	2nd Assist Min
29	2nd Assist Upper Quartile
30	3rd Assist Lower Quartile
31	3rd Assist Max
32	3rd Assist Mean
33	3rd Assist Median
34	3rd Assist Median
35	3rd Assist Upper Quartile
36	4th Assist Lower Quartile
37	4th Assist Max
38	4th Assist Mean
39	4th Assist Median
40	4th Assist Min
41	4th Assist Upper Quartile
42	5th Assist Lower Quartile
43	5th Assist Max
44	5th Assist Mean
45	5th Assist Median
46	5th Assist Min
47	5th Assist Upper Quartile
48	6th Assist Upper Quartile
49	6th Assist Max
50	6th Assist Mean 6th Assist Median
51	
52	6th Assist Upper Questile
53	6th Assist Upper Quartile
54	Avg Touches Lower Quartile
55	Avg Touches Mean
56	Avg Touches Median

57	Avg Touches Min
58	Avg Touches Upper Quartile
59	Backwards Passes Unsuccessful Lower Quartile
60	Backwards Passes Unsuccessful Median
61	Backwards Passes Unsuccessful Min
62	Backwards Passes Unsuccessful Upper Quartile
63	Blocks Lower Quartile
64	Blocks Min
65	Clearances Min
66	Corners Conceded Lower Quartile
67	Corners Conceded Median
68	Corners Conceded Min
69	Corners Conceded Upper Quartile
70	Corners from LEFT Lower Quartile
71	Corners from LEFT Max
72	Corners from LEFT Mean
73	Corners from LEFT Median
74	Corners from LEFT Min
75	Corners from LEFT Upper Quartile Corners from RIGHT Lower Quartile
76	Corners from RIGHT Lower Quartile Corners from RIGHT Max
77	
78 79	Corners from RIGHT Mean Corners from RIGHT Median
80	Corners from RIGHT Min
81	Corners from RIGHT Upper Quartile
82	Corners Taken Lower Quartile
83	<u> </u>
84	Corners Taken Max Corners Taken Mean
	Corners Taken Median
85	Corners Taken Min
86	
87	Corners Taken Upper Quartile
88	Crosses from LEFT Lower Quartile
89	Crosses from LEFT Max
90	Crosses from LEFT Mean
91	Crosses from LEFT Median
92	Crosses from LEFT Union Quantile
93	Crosses from LEFT Upper Quartile
94	Crosses from RIGHT Lower Quartile
95	Crosses from RIGHT Max
96	Crosses from RIGHT Mean
97	Crosses from RIGHT Median
98	Crosses from RIGHT Min

99	Crosses from RIGHT Upper Quartile
100	Crosses Min
101	Dribbles Lower Quartile
102	Dribbles Median
103	Dribbles Min
104	First Time Passes Unsuccessful Lower Quartile
105	First Time Passes Unsuccessful Median
106	First Time Passes Unsuccessful Min
107	Fouled Lower Quartile
	Fouled Median
108	
109	Fouls in Defensive 2nd Lower Overtile
110	Fouls in Defensive 3rd Lower Quartile
111	Fouls in Defensive 3rd Max
112	Fouls in Defensive 3rd Median
113	Fouls in Defensive 3rd Min
114	Fouls in Defensive 3rd Upper Quartile
115	Fouls Lower Quartile
116	Fouls Median
117	Fouls Min
118	Fouls Upper Quartile
119	Free Kicks Taken Lower Quartile
120	Free Kicks Taken Max
121	Free Kicks Taken Mean
122	Free Kicks Taken Median
123	Free Kicks Taken Min
124	Free Kicks Taken Upper Quartile
125	Goals Lower Quartile
126	Goals Max
127	Goals Median
128	Goals Min
129	Goals Upper Quartile
130	Offsides Lower Quartile
131	Offsides Max
132	Offsides Median
133	Offsides Min
134	Offsides Upper Quartile
135	Own Goals Lower Quartile
136	Own Goals Max
137	Own Goals Mean
138	Own Goals Median
139	Own Goals Min
140	Own Goals Upper Quartile

142 Playing Time Max 143 Playing Time Mean 144 Playing Time Median 145 Playing Time Min 146 Playing Time Upper Quartile 147 Red Cards 148 Red Cards Lower Quartile 149 Red Cards Max 150 Red Cards Mean 151 Red Cards Median 152 Red Cards Median 153 Red Cards Upper Quartile 154 Shooting Accuracy Min 155 Shooting Accuracy Min 156 Shots Inside the Box Median 157 Shots Off Target (Exc. Blocked) Lower Quartile 159 Shots Off Target (Exc. Blocked) Upper Quartile 160 Shots off Target (Exc. Blocked) Upper Quartile 161 Shots on Target Inside the Box Median 162 Shots on Target Inside the Box Median 163 Shots on Target Inside the Box Median 164 Shots on Target Inside the Box Median 165 Shots on Target Inside the Box Median 166 Shots Off Target (Exc. Blocked) Upper Quartile 167 Shots on Target Inside the Box Median 168 Shots on Target Inside the Box Median 169 Shots on Target Inside the Box Median 160 Shots Off Target (Exc. Blocked) Upper Quartile 161 Shots on Target Inside the Box Median 162 Shots on Target Inside the Box Median 163 Shots on Target Inside the Box Median 164 Shots on Target Inside the Box Median 165 Shots on Target Inside the Box Median 166 Shots On Tgt Outside the Box Upper Quartile 170 Shots On Tgt Outside the Box Median 171 Shots Outside the Box Min 172 Shots Outside the Box Min 173 Sideways Passes Unsuccessful Upper Quartile 174 Sideways Passes Unsuccessful Hopper Quartile 175 Sideways Passes Unsuccessful Hopper Quartile 176 Shots Outside the Box Upper Quartile 177 Tackles Min 178 Total Blocked Shots Lower Quartile 179 Total Blocked Shots Lower Quartile 179 Total Blocked Shots Lower Quartile 179 Total Blocked Shots Min 170 Total Blocked Shots Min 171 Total Blocked Shots Min 172 Total Blocked Shots Min 173 Total Blocked Shots Min 174 Total Blocked Shots Min 175 Total Blocked Shots Min 176 Total Blocked Shots Min 177 Total Blocked Shots Min 178 Total Blocked Shots Min	141	Playing Time Lower Quartile
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185	Total Shots on Target Min
186	Total Shots on Target Upper Quartile
187	Total Shots on Tgt (Excluding Blocked) Lower Quartile
188	Total Shots on Tgt (Excluding Blocked) Median
189	Total Shots on Tgt (Excluding Blocked) Min
190	Total Shots on Tgt (Excluding Blocked) Upper Quartile
191	Yellow Cards Lower Quartile
192	Yellow Cards Max
193	Yellow Cards Mean
194	Yellow Cards Median
195	Yellow Cards Min
196	Yellow Cards Upper Quartile