## **Fantasy Football Neural Network**

Tomas Kersulis

#### **Neural Network Details:**

The goal of this neural network is to take in past NFL season data and predict future fantasy football production for eligible NFL players.

To do this, I collected data from the past 5 NFL seasons (2018-2022) using two primary sources, fantasypros.com and pro-football-reference.com. The first data that I collected was each NFL team's roster for every season, as well as the snap counts for the skill position (QB, RB, WR, TE) players and their percentages, which could then show how much each player on the roster was getting utilized. This also helped determine the relative ordering of players in each position in the depth chart for each team, which I would use later.

Next, I collected data for each skill position player that played in the NFL over the last 5 seasons. In case you are not too familiar with fantasy football, the reason I am collecting data for the skill positions is that these are the positions that are used and earn points during fantasy football. Since each position has its own unique stats that are important to express the ability of a player, I created a list of every basic and advanced statistic available on my sources for each specific position. For example, the statistics in the QB list included basic stats for a season, such as passing yards, passing touchdowns, completions, etc., but also included much more advanced stats, such as pass pressure percentage, pass air yards, rush scrambles, etc. By collecting both these basic and advanced stats, I hoped that a player's ability would be well described by a combination of all these stats collected. In addition to these stats, I also gathered each player's snap counts, game-by-game targets, and statistics in the redzone.

After getting each player and team's statistics from my data sources, it was time to construct the features for each player to act as input for the neural network. For each player and for each season that player played in the last 5 years, I looked up all of the basic and advanced statistics that I collected earlier and added the stats associated with the player's position to the player's features from their previous NFL season. I also looked up that player's team data for the current NFL season and got the roster from that data. From that team's roster, I got the top QB, top 3 RBs, top 5 WRs, and top 3 TEs by snap percentage to represent the team's depth chart. I then added the snap percentage and player statistics from the previous season for each of these players to the original player's features. The reasoning behind this is that a player's teammates, especially QBs for WRs and vice versa, can greatly affect a player's performance. When players move to different teams, their change in teammates will now be taken into consideration by the neural network. The reason that the statistics were from the previous season and the roster was from the current season is because the goal of the project is to predict a player's fantasy football output before the NFL season starts using the previous NFL season's data. At the beginning of the season, we already know each player's current season's NFL roster, but can only use the player's statistics from the previous season because the current one has not started yet. So, to

reflect the team situation a player is in for the season the neural network is predicting, the current season's roster is used. The one problem with this, is that we do not know the exact depth chart and snap percentages on a team's roster before the current season has started when predicting the final 2023 season that we are ultimately trying to predict. To deal with this, I calculated the weighted average of the snap counts for each position in the depth chart over the last 5 NFL seasons, with greater weights given to the most recent NFL seasons. This aims to reflect how many snaps each position in the depth chart historically gets on each NFL team. I then used the predicted depth charts for each team for the 2023 season and gave each player their associated snap count percentage calculated by the weighted average.

Like with any data collection, the data may be susceptible to missing values. The same was true in this project as some players may have not played enough games to accumulate some stats, may be injured for some games, some advanced stats may not be available, etc. To account for this in my neural network, I calculated the league average for each statistic for each NFL season in my data and used that value for missing values.

To train and validate the data in the neural network, I used the features that I constructed for each season and each player as the x input values and the fantasy points that player scored as the y target values. For example, for 2019 Tom Brady, the x input data would be the features containing the 2019 Patriots roster and the statistics for Tom Brady and the teammates on the roster from the 2018 NFL season. The y input data would be the fantasy points scored by Tom Brady in the 2019 NFL season. To validate and find the best hyperparameters for the neural network, I used all the player data from 2019-2022 and split this data into 80% training and 20% validation. I used this data split to find which hyperparameters minimized the mean squared error of predicted fantasy points. I ended with a neural network with 2 hidden layers each with 1,000 neurons and ReLU activation function. The number of input neurons was 675, the number of features when including all of the statistics described above, and the number of output neurons was 1, the fantasy points predicted. I trained the neural network for 5,000 epochs with a batch size of 10 for each separate position.

Once I found the hyperparameters listed above, I fit the model using 100% of the player data from 2019-2022 and then predicted the players from 2023 using this neural network. The predictions, by position are listed below (based on half PPR):

# QBs:

Josh Allen: 468.55994	Desmond Ridder: 66.76361
Jalen Hurts: 414.19537	Sam Ehlinger: 64.70012
Daniel Jones: 376.26874	Tyrod Taylor: 63.956863
Tua Tagovailoa: 347.39575	Sam Darnold: 60.72069
Patrick Mahomes: 342.21094	Nick Mullens: 57.67571
Joe Burrow: 330.50336	David Blough: 52.89981
Justin Fields: 323.34943	Mike White: 52.833637
Justin Herbert: 323.27988	Malik Willis: 48.313816
Kirk Cousins: 318.30206	Joshua Dobbs: 40.95693
Trevor Lawrence: 312.84497	Trace Mcsorley: 40.04988
Geno Smith: 312.51556	Brian Hoyer: 39.584538
Kyler Murray: 294.3456	Chase Daniel: 39.565758
Aaron Rodgers: 265.34665	Kyle Allen: 39.38436
Taylor Heinicke: 256.573	Tyler Huntley: 38.805073
Kenny Pickett: 256.0667	Skylar Thompson: 37.201736
Carson Wentz: 246.81415	Baker Mayfield: 34.259785
Russell Wilson: 241.94868	Trey Lance: 33.84876
Tom Brady: 241.2472	Cooper Rush: 33.090908
Deshaun Watson: 224.63582	Brandon Allen: 33.06706
Jared Goff: 214.61154	P.J. Walker: 32.932816
Jacoby Brissett: 199.25851	Jordan Love: 32.78751
Matthew Stafford: 198.95131	Nate Sudfeld: 32.170204
Lamar Jackson: 197.10565	Nick Foles: 31.455849
Jarrett Stidham: 189.33563	Joe Flacco: 30.834278
Matt Ryan: 187.93259	Chris Streveler: 30.048058
Mac Jones: 187.06052	Josh Johnson: 29.38514
Derek Carr: 183.70258	Teddy Bridgewater: 28.560917
Jimmy Garoppolo: 183.28856	Anthony Brown: 27.430485
Andy Dalton: 175.5125	C.J. Beathard: 24.471252
Davis Mills: 162.51529	Chad Henne: 21.133255
Dak Prescott: 162.31036	Davis Webb: 18.954212
Marcus Mariota: 158.82443	Jacob Eason: 17.426132
Mitchell Trubisky: 152.01239	Nathan Peterman: 16.849361
John Wolford: 129.09164	Tim Boyle: 15.034596
Colt Mccoy: 125.58839	Trevor Siemian: 14.27975
Brock Purdy: 119.937096	Kyle Trask: 13.831645
Ryan Tannehill: 98.72365	Blaine Gabbert: 8.902804
Bryce Perkins: 82.46878	Gardner Minshew: 8.210162
Brett Rypien: 80.43618	Jeff Driskel: 8.0964985
Jameis Winston: 76.90614	Sam Howell: 0.94608784
Bailey Zappe: 76.084854	Case Keenum: -3.8936453
Zach Wilson: 69.93016	

#### RB:

Nick Chubb: 309.81516 Saquon Barkley: 258.1691 Alvin Kamara: 240.99886 Travis Etienne: 238.20494 Miles Sanders: 233.72466 Rhamondre Stevenson: 230.18404 Dalvin Cook: 224.97969 Kenneth Walker: 220.33597 Aaron Jones: 213.1412 Jonathan Taylor: 209.19621 Joe Mixon: 206.05876 Dameon Pierce: 204.06615 Tony Pollard: 199.41724 Najee Harris: 197.20439 Jamaal Williams: 191.31323 Ezekiel Elliott: 189.8264 Leonard Fournette: 188.01936 Tyler Allgeier: 185.623 Melvin Gordon: 176.51286 Derrick Henry: 176.34984 Austin Ekeler: 175.54631 Samaje Perine: 175.51743 Jerick Mckinnon: 168.52051 Christian Mccaffrey: 162.5027 Aj Dillon: 162.35239 Jaylen Warren: 161.0153 James Conner: 155.93814 Marlon Mack: 148.43546 Javonte Williams: 145.86316 Rachaad White: 143.56691 Josh Jacobs: 132.50116 Cam Akers: 129.42969 David Montgomery: 127.02332 D'Andre Swift: 126.69198 Mike Boone: 122.877975 Ty Johnson: 122.251045 Isiah Pacheco: 120.474815 Deeiav Dallas: 115.45759 Cordarrelle Patterson: 113.2972 Alexander Mattison: 110.60318 Tyler Badie: 110.24257 Mark Ingram: 110.20232 Brian Robinson: 109.6311 Devine Ozigbo: 104.03128 Joshua Kelley: 103.154335 Raheem Mostert: 100.01594 J.K. Dobbins: 99.1742 Zonovan Knight: 98.84953 Kenyan Drake: 97.29238 Godwin Igwebuike: 50.312332

Myles Gaskin: 97.17593 Kene Nwangwu: 96.646065 Ronald Jones: 96.43124 James Robinson: 95.53293 Chase Edmonds: 92.633446 Trey Sermon: 91.228455 Ty Chandler: 87.26946 Breece Hall: 82.30822 Devin Singletary: 81.66002 Michael Carter: 80.096985 Gus Edwards: 79.98228 Kareem Hunt: 79.055695 Mike Davis: 76.87579 Boston Scott: 75.931145 Kenneth Gainwell: 75.650566 Brandon Bolden: 75.43404 Salvon Ahmed: 75.42146 Dare Ogunbowale: 74.43718 Royce Freeman: 73.51601 Jordan Mason: 71.810524 Ty'Son Williams: 71.17379 Ameer Abdullah: 68.885 Rashaad Penny: 67.45226 Corey Clement: 67.27388 Justice Hill: 66.94577 Elijah Mitchell: 66.79775 Khalil Herbert: 65.40059 Clyde Edwards-Helaire: 64.91692 Deon Jackson: 62.03557 Justin Jackson: 61.696903 Dontrell Hilliard: 60.369717 Latavius Murray: 60.18526 Eno Benjamin: 58.525417 Craig Reynolds: 58.092842 Antonio Gibson: 58.007103 Zamir White: 57.191196 David Johnson: 56.697567 Snoop Conner: 56.67492 Darrel Williams: 56.46815 Darrell Henderson: 55.017944 D'Onta Foreman: 54.835205 Hassan Haskins: 54.60609 Chris Evans: 54.11403 Rex Burkhead: 53.555836 Travis Homer: 53.4823 Damien Harris: 52.98149 Chuba Hubbard: 51.432938 Jamycal Hasty: 50.49504

Jeff Wilson: 48.836075 James Cook: 47,40044 Jordan Howard: 47.325996 Tony Jones: 47.12358 Anthony Mcfarland: 46.20757 Benny Snell: 45.083126 Tevin Coleman: 43.379787 Jonathan Ward: 41.031746 Dwayne Washington: 39.330357 Kyren Williams: 39.313007 Julius Chestnut: 38.56001 Nyheim Hines: 36.90345 Matt Breida: 36.788403 Tyrion Davis-Price: 36.633198 Kylin Hill: 36.55327 Gary Brightwell: 35.21521 Spencer Brown: 34.874626 Duke Johnson: 33.45364 Giovani Bernard: 32.203106 Trayveon Williams: 31.872517 Zack Moss: 31.532108 Jordan Wilkins: 28.8548 Patrick Taylor: 28.622778 Demetric Felton: 27.22959 Ke'Shawn Vaughn: 27.066263 D'Ernest Johnson: 26.806755 Keaontay Ingram: 24.488918 Ronnie Rivers: 22.20872 Malcolm Brown: 17.57675 Phillip Lindsay: 17.207636 Larry Rountree: 15.345857 Damien Williams: 13.663604 Jerome Ford: 13.445587 Caleb Huntley: 12.785159 Darrynton Evans: 11.987196 Isaiah Spiller: 11.301426 Malik Davis: 10.816375 Avery Williams: 10.714133 Reggie Bonnafon: 9.044794 Sony Michel: 8.981937 J.D. Mckissic: 8.4466505 Raheem Blackshear: 7.0517178 Jonathan Williams: 2.7749336 Trestan Ebner: -0.5191672 J.J. Taylor: -3.4133656 Kevin Harris: -4.467558 Jaret Patterson: -6.078104 Pierre Strong: -7.3962

#### WR:

Justin Jefferson: 327.4407	Jauan Jennings: 105.34234
Stefon Diggs: 299.92227	Kendall Hinton: 103.08045
Brandon Aiyuk: 272.2176	K.J. Osborn: 101.887024
Davante Adams: 257.2566	Kalif Raymond: 99.76519
Christian Kirk: 253.28178	Lance Mccutcheon: 99.07283
Tyreek Hill: 249.2599	Mack Hollins: 98.08436
Amon-Ra St.Brown: 227.33134	Donovan Peoples-Jones:
A.J. Brown: 215.0754	97.510765
Darius Slayton: 201.78564	Deandre Carter: 96.91573
Ceedee Lamb: 199.72368	Devante Parker: 96.794266
Mike Williams: 196.12668	T.Y. Hilton: 96.210335
Chris Olave: 191.70078	Wan'Dale Robinson: 95.452415
Devonta Smith: 191.08136	Randall Cobb: 94.45018
Josh Palmer: 190.12468	Michael Gallup: 92.43838
Michael Pittman: 183.8518	Hunter Renfrow: 91.40566
Jaylen Waddle: 182.95822	Justin Watson: 90.6309
Drake London: 178.62254	Marquise Brown: 90.28818
D.K. Metcalf: 175.30083	Parris Campbell: 90.06643
Mike Evans: 172.74333	Kavontae Turpin: 89.53278
Tyler Lockett: 172.38882	Jalen Tolbert: 89.15966
Garrett Wilson: 171.81717	Josh Reynolds: 87.82122
Tee Higgins: 170.22115	Dj Chark: 86.8909
Amari Cooper: 169.88058	Marquise Goodwin: 86.15028
Brandin Cooks: 161.62054	Romeo Doubs: 84.10208
Adam Thielen: 160.40842	Curtis Samuel: 83.50199
Kadarius Toney: 159.4376	Khalil Shakir: 80.65413
Jakobi Meyers: 155.64438	Michael Woods: 77.338615
Gabriel Davis: 151.3652	Ray-Ray Mccloud: 77.08215
Chris Godwin: 148.37016	Simi Fehoko: 76.97607
Zay Jones: 145.56485	Deandre Hopkins: 75.588524
Ja'Marr Chase: 144.20294	Equanimeous St.Brown:
Jerry Jeudy: 142.87738	75.40145
Darnell Mooney: 135.70222	Marvin Jones: 75.32791
Deebo Samuel: 135.43968	Rondale Moore: 74.96484
Terry Mclaurin: 134.35672	Nick Westbrook-Ikhine:
Noah Brown: 133.35452	74.38016
Allen Lazard: 132.59201	Cole Beasley: 73.83588
Juju Smith-Schuster:	Russell Gage: 72.62415
129.71217	Daylen Baldwin: 72.30073
Courtland Sutton: 128.95279	Austin Trammell: 72.14363
Tyler Boyd: 128.24492	Jamison Crowder: 71.47175
Christian Watson: 126.40758	D.J. Moore: 70.43625
Richie James: 123.91607	Pharoh Cooper: 69.643196
Dennis Houston: 123.550964	Keke Coutee: 67.84139
Diontae Johnson: 120.23181	Dante Pettis: 65.99282
Isaiah Mckenzie: 119.92625	Trent Sherfield: 65.781586
Skyy Moore: 118.94978	David Bell: 65.73059
Cooper Kupp: 118.240425	Chosen Anderson: 64.7668
Mecole Hardman: 118.20395	Allen Robinson: 64.30789
Isaiah Hodgins: 117.90085	Alec Pierce: 64.237404
Robert Woods: 115.45147	Sterling Shepard: 63.647346
Nico Collins: 113.009926	Damiere Byrd: 63.62743
Marquez Valdes-Scantling:	Treylon Burks: 63.457485
111.93038	Dax Milne: 63.356342
Chris Moore: 110.87092	Danny Gray: 61.07133
Keenan Allen: 110.45891	Zach Pascal: 61.06678
James Washington: 108.89608	Ben Skowronek: 59.872467

Olamide Zaccheaus: 105.80643

Phillip Dorsett: 59.257313

Van Jefferson: 59.03492

Terrace Marshall: 58.930576 Jahan Dotson: 58.37405 Anthony Schwartz: 57.56849 Jake Kumerow: 57.262085 Laviska Shenault: 56.384415 N'Keal Harry: 55.51435 Mike Strachan: 55.233654 Laquon Treadwell: 54.68811 Corey Davis: 54.300182 Elijah Moore: 54.13207 Dareke Young: 53.269455 John Brown: 52.929253 Shi Smith: 52.350292 Brandon Powell: 52.03591 Dezmon Patmon: 52.02853 Dyami Brown: 51.76305 Cade Johnson: 51.26007 Tanner Gentry: 51.21263 George Pickens: 51.166794 Demarcus Robinson: 49.926414 Denzel Mims: 49.775745 Tim Jones: 49.758472 Velus Jones: 49.692432 D'Wayne Eskridge: 49.66794 Di Turner: 48.82914 Rashod Bateman: 48.29332 Quez Watkins: 47.38542 Penny Hart: 47.17613 Andre Baccellia: 46.825535 Ty Montgomery: 46.82527 Cedrick Wilson: 46.7661 Montrell Washington: 46.695637 Byron Pringle: 45.89366 Julio Jones: 44.828903 Erik Ezukanma: 44.739246 Jalen Virgil: 44.63268 Kenny Golladay: 43.866287 Ihmir Smith-Marsette: 42 173477 Braxton Berrios: 42.009335 Nelson Agholor: 41.760094 River Cracraft: 41.577408 Devin Duvernay: 41.486767 Trenton Irwin: 41.06701 Tutu Atwell: 40.974785 Jameson Williams: 40.783154 Marcus Johnson: 40.411804 Jamal Agnew: 40.084866 Lil'Jordan Humphrey: 39.773052 Frank Darby: 38.84491 Sammy Watkins: 37.96797 Jacob Harris: 37.93537 Desean Jackson: 37.821426 Greg Dortch: 37.465157

Andy Isabella: 37.217632

Nsimba Webster: 36.47792

James Proche: 36.150448 Jeff Smith: 36.04161 Cam Sims: 35.86569 Bryan Edwards: 35.525032 Kendrick Bourne: 34.72604 Khadarel Hodge: 34.620388 Stanley Morgan: 33.796597 Braylon Sanders: 33.070213 David Sills: 32.378044 Tre'Quan Smith: 31.789654 Racey Mcmath: 31.581053 Chris Conley: 31.506662 Tylan Wallace: 31.428423 Rashid Shaheed: 31.351374 Josh Ali: 31.24235 Michael Bandy: 30.66679 Trent Taylor: 30.483463 Kyle Philips: 28.867498 Jason Moore: 28.383202 Jalen Guyton: 28.303085 Tyguan Thornton: 28.1247 Keelan Cole: 27.997784 Quintez Cephus: 27.780703 Marquez Callaway: 27.510202 Scott Miller: 27.360289 Juwann Winfree: 27.288935 Samori Toure: 27.193296 Mike Thomas: 26.871305 Deven Thompkins: 26.638893 A.J. Green: 26.207373 Breshad Perriman: 25.980932 Chase Claypool: 25.842546 Kj Hamler: 24.775738 Cody Hollister: 24.100397 Brandon Johnson: 23.922443 Ashton Dulin: 23.517824 Steven Sims: 22.247711 Freddie Swain: 22.08809 Michael Thomas: 21.413942 Jaelon Darden: 21.021996 Tom Kennedy: 20.393787 Tyrie Cleveland: 20.35898 Deonte Harty: 17.820892 Kevin White: 16.763622 Mason Kinsey: 16.020859 Cody White: 15.312843 C.J. Board: 15.226648 Keith Kirkwood: 14.946026 Miles Boykin: 14.880259 Amari Rodgers: 14.70812 Tyron Johnson: 13.355101 Jalen Camp: 12.133345 Gunner Olszewski: 11.451071 Josh Gordon: 10.871849 Jarvis Landry: 8.4142 Maurice Alexander: 8.251899 Jalen Nailor: 5.5394664 Jalen Reagor: 3.625067

#### TE:

Travis Kelce: 233.63277	
Cole Kmet: 174.47255	
Evan Engram: 167.17674	
George Kittle: 161.93758	
Tyler Conklin: 149.47513	В
Darren Waller: 147.19804	
Foster Moreau: 141.30373	
Pat Freiermuth: 138.92235	
Tyler Higbee: 135.24156	ŀ
Daniel Bellinger: 133.92229	
T.J. Hockenson: 133.34438	J
Zach Ertz: 118.880974	
Gerald Everett: 116.41671	R
Dalton Schultz: 115.45122	
Jonnu Smith: 115.283554	J
Dallas Goedert: 114.50549	
Mark Andrews: 110.426	
David Njoku: 109.634415	
Jordan Akins: 102.747284	
Quintin Morris: 93.7589	
Connor Heyward: 90.070114	
Dawson Knox: 89.76169	St
Tanner Hudson: 88.00363	
Mike Gesicki: 79.16861	
Austin Hooper: 75.03066	
Hunter Henry: 74.89177	
Cade Otton: 74.54967	-
Nick Vannett: 74.29527	
Kylen Granson: 70.812775	[
Donald Parham: 67.97795	
Tommy Tremble: 67.67203	
Greg Dulcich: 66.57717	
Robert Tonyan: 63.019394	
Giovanni Ricci: 62.176582	
lan Thomas: 61.71026	
Noah Fant: 61.679367	
Will Dissly: 60.886963	С
Trey Mcbride: 60.173447	
Jelani Woods: 58.938515	
Tommy Sweeney: 57.568504	
Colby Parkinson: 56.0823	
Noah Gray: 55.777664	

Travia Kalaa: 222 62277

Chigoziem Okonkwo: 55.50889 Irv Smith: 52.119774 Maxx Williams: 51.80532 Brycen Hopkins: 51.382774 Mo Alie-Cox: 50.79184 Hayden Hurst: 50.749763 Logan Thomas: 48.28147 Kendall Blanton: 45.93016 Harrison Bryant: 44.1315 Juwan Johnson: 43.829453 Jake Tonges: 43.2612 Richard Rodgers: 43.123543 Ross Dwelley: 42.495514 Jesper Horsted: 41.553482 Tyler Kroft: 40.247314 Mitchell Wilcox: 38.39943 Isaiah Likely: 37.096405 Ryan Griffin: 35.85241 Ben Ellefson: 32.565002 Kyle Pitts: 31.929785 tephen Sullivan: 31.804388 Jack Stoll: 30.59353 Teagan Quitoriano: 29.692234 C.J. Uzomah: 28.967447 Trevon Wesco: 28.565788 Parker Hesse: 28.42474 Durham Smythe: 27.95717 Luke Farrell: 27.751425 Jake Ferguson: 26.82462 O.J. Howard: 26.63048 Stone Smartt: 26.227022 Dan Arnold: 25.995707 Zach Gentry: 24.824804 John Bates: 23.537851 Charlie Woerner: 23.212015 Geoff Swaim: 23.111525 Eric Saubert: 22.70535 Brock Wright: 22.321426 Stephen Anderson:

22.256433

Albert Okwuegbunam: 21.73539 Brevin Jordan: 21.029388 Mason Schreck: 20.457685 Peyton Hendershot: 20.365845 Johnny Mundt: 19.920603 James Mitchell: 19.587675 Cameron Brate: 18.912338 Chris Manhertz: 18.831537 Devin Asiasi: 18.249731 Taysom Hill: 18.15405 Mycole Pruitt: 16.868397 Lawrence Cager: 16.672268 Drew Sample: 15.6418295 Anthony Firkser: 15.088187 Pharaoh Brown: 13.761906 Tre' Mckitty: 12.562869 Jody Fortson: 12.2078705 Josiah Deguara: 11.807615 Josh Oliver: 11.73791 Marcedes Lewis: 11.190581 Blake Bell: 11.186154 Noah Togiai: 10.893249 Charlie Kolar: 10.017895 Eric Tomlinson: 9.649981 Armani Rogers: 9.574679 Sean Mckeon: 9.415009 Shane Zylstra: 9.052973 Kyle Rudolph: 8.05422 Adam Trautman: 7.8518405 Tyler Davis: 7.614711 Ko Kieft: 7.316603 Tyler Mabry: 6.75112 Cole Turner: 6.675478 Grant Calcaterra: 6.6325636 Tanner Conner: 6.361542 Miller Forristall: 3.116974 Jeremy Ruckert: 2.7934856

Feleipe Franks: 22.083078

### Reflection

Although the predictions are not perfect, I believe the neural network did a pretty good job. It is very hard to get the full picture of a player's situation using solely statistics as a lot of things can change from year-to-year. Things like injuries, retirements, coaching changes, etc. can greatly affect fantasy football production and are hard to take into account in this neural network. Looking at the predictions, for the most part, the order of the rankings seem to be decently in line with what a lot of fantasy sources are predicting, so that is promising, but there are still quite a few oddities that do not make sense to the human eye. However, overall I am pretty happy with this project as it is the first time I have created and implemented a neural network from start to finish starting with collecting data and creating features from the data, to training and validating the neural network, to finally obtaining and displaying the final predictions by the model.