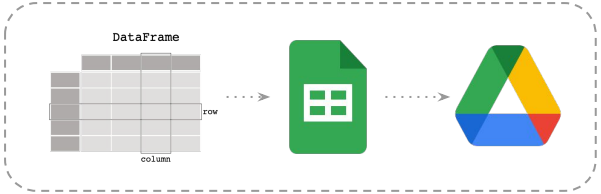
Ready for Some Football?

SIADS 699 Capstone W23 | cyeskoo, mcpark, zeisner

The 2023 NFL season is fast approaching and this year, our SIADS team has decided to use supervised learning techniques to give us an edge and finally win that fantasy football prize money against our colleagues, friends and family members 🤑

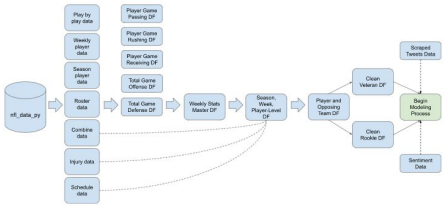
Using the nfl_data_py and Twitter API, our project sources data from games, players, teams, and the league, to engineer features that we use for modeling fantasy performance for players on any given Sunday! Our predictions are fresh – accounting for the latest roster updates – and are visualized to help users conduct their own trend analysis to help make anyone seem like a genius in their league. Below is a high level summary of our workflow, but check out more information in our blog!

Schedule & Export: Schedule our Colab to train, predict and export the latest prediction data DataFrame as a Google Sheet in Drive.

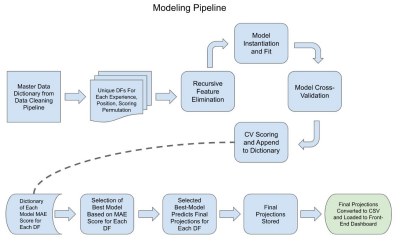


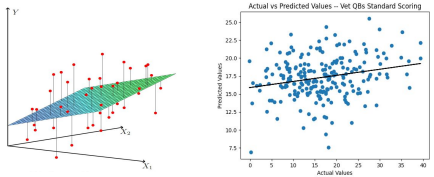
Data: Source player, game and roster data from open source APIs for feature engineering.

	full_name	team_abbr	team_color	week	passing_yards	pass_touchdown
318	Josh Allen	BUF	#00338D	1	270.0	1.0
319	Josh Allen	BUF	#00338D	2	179.0	2.0
320	Josh Allen	BUF	#00338D	3	358.0	4.0
321	Josh Allen	BUF	#00338D	4	248.0	2.0
322	Josh Allen	BUF	#00338D	5	315.0	3.0
323	Josh Allen	BUF	#00338D	6	353.0	3.0
324	Josh Allen	BUF	#00338D	8	249.0	2.0



Modeling: Use data processing and ML techniques to build prediction models for player scores.





Visualize: Build our dashboard using Looker Studio, connected to our Sheet in Drive to visualize our data with daily freshness.