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Capstone #2 Proposal

**Problem:** NFL teams have difficulty evaluating Quarterbacks despite it being the most important position in football. Additionally, the 4-5 years of surplus value resulting from drafting an NFL ready Quarterback allows a team to improve at any position of need, increasing the value of good player projections.

**Clients:** Some potential clients would be NFL teams, sports gambling bookmakers and fantasy football websites. NFL teams would obviously be looking to capitalize on the advantages of having a QB on a rookie contract rather than one worth over 100 million dollars. Less obviously, Sports books strive to have more information than bettors so knowing how well a college QB fits into the NFL before he has taken a snap could be a big advantage. Additionally, many sportsbooks take bets on when certain players will be taken so solving this issue may help them better predict that. Fantasy football websites want to provide complete information on all players to better rank players for their subscribers. Better information on rookie quarterbacks will allow them to more accurately rank them.

**Data:** At this time my plan is to scrape data on quarterbacks who made the NFL in the last 20 years. I plan to obtain their stats from college and from the NFL from <https://www.sports-reference.com/cfb/> & <https://www.pro-football-reference.com/>. This is subject to change if I can find a premade dataset.

**Solutions:** I will use information on the college and professional statistics of Quarterbacks who played in the NFL to create a model that will determine if future college Quarterbacks are ready to start on an NFL team. Defining readiness will be subjective, but I believe that it will benefit our analysis to focus on how the Quarterback performs in the first 2-3 seasons so NFL teams can capture the benefits from having a cheaper QB. I plan to do more research before committing to any specific readiness criteria.

**Deliverables:** I plan to deliver a working model that will be useful as soon as the upcoming NFL draft. In addition, I will create a report and presentation based on insights into past Quarterbacks and what qualities they possess that made the general consensus either over or under rate them.