Project-02-group-3

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Goal

- Identify who will win 2023 NBA finals - Denver Nuggets vs Miami Heat

Data -

1. Identify Players rankings, scores (Shots made), misses, injuries from this season for both the teams - Analytics on if a player can win the game for the team (Moneyball)
2. Identify team rankings, salary, Profits, fan sentiments of the team
    - Tweets, Google trends to do sentiment analysis - Prophet model
    - Profits - branding, merchandise, tickets,

1 and 2 should tell us if a team is going to win or not.

We will use additional validation by doing below

1. Feed live data of match results and see if model still works
2. Identify what the big booking companies are betting on or against focussed on the team.
    - Could be used for validation if model is closer to Industry standards

Day 1 Activities

- Gather data

In Progress Players	Brian
Team	Mike
Big booking companies	Bryce

- Explore model - Chandan
    - Supervised vs unsupervised vs ?
    - Forest tree
    - Sentiment analysis
    - https://www.dataart.com/blog/5-use-cases-for-machine-learning-in-sports-betting

Create CSV files

- Directly in the github

Helpful links- Git Hub Link https://github.com/xbmm1/project-02-group-3

Player data	https://www.nbastuffer.com/2022-2023-nba-player-stats/
US Sports Betting Revenue	https://www.legalsportsreport.com/sports-betting/revenue/
NBA Moneyball	https://www.nbastuffer.com/analytics-101/nba-moneyball/
Model	https://www.dataart.com/blog/5-use-cases-for-machine-learning-in-sports-betting https://www.dataart.com/clients/case-studies/applications-suite-for-a-sports-analytics-company
Odds API	https://the-odds-api.com/#get-access

```
nuggets_players_df = pd.read_csv(
    Path("./CSV/DEN_game_4_stats.csv"),
    index_col='PLAYER'
)
nuggets_players_df = nuggets_players_df.rename(columns={'3 PM': '3PM'})
# Review the DataFrame
nuggets_players_d
```