

Capstone Project 1 Ideas

1. Fantasy Football/Sports Betting

- a. Problem:
 - i. Finding value based on historical data when pricing/picking players.
 - ii. Kept this broad, wanted to get your input on best topics to hone in on
- b. Description:
 - i. Determine best indicators for predicting future performances.
 - 1. Past Performances; Professional and College
 - 2. Utilizing Advanced Analytics
 - 3. Injury Analysis
 - 4. Teams/Coaches
 - ii. Identify outliers and attempt to explain why boom/bust occurred.
 - iii. Develop correlation charts/graphs to visualize data.
 - iv. Provide value to drafters/commissioners/bettors by reducing risk and increasing chance of winning on a weekly and season long basis.
- c.
- d. Data Sources:
 - i. [NFL Statistics | Kaggle](#)
 - ii. [Detailed NFL Play-by-Play Data 2009-2018 | Kaggle](#)
 - iii. [NFL Football Player Stats | Kaggle](#)
 - iv. [College Football Statistics | Kaggle](#)
 - v. [2019 NFL Scouting Combine | Kaggle](#)
 - vi. [NFL Draft Outcomes | Kaggle](#)
 - vii.

2. Energy

- a. Problem:
 - i. Is energy being distributed effectively?
- b. Description:
 - i. Energy Generation vs Consumption
 - ii. What are the biggest factors leading to loss of energy?
- c.
- d. Data Sources:
 - i. [US Energy Statistics | Kaggle](#)
 - ii. [Residential Energy Consumption Survey | Kaggle](#)
 - iii. [Hourly Energy Consumption | Kaggle](#)
 - iv. [State Energy System Data, 1960-2014 | Kaggle](#)
 - v. [High Storage System Data for Energy Optimization | Kaggle](#)
 - vi.

3. Music

- a. Problem:
 - i. Is there a correlation between season/time of year and popularity of certain audio factors?

b. Description:

i.

c.

d. Data Sources:

i. [Top Spotify Tracks of 2018 | Kaggle](#)

ii. [Spotify Audio Features | Kaggle](#)

iii.