- 1. Predicting the Success of the 2020-21 Philadelphia 76ers: How will Daryl Morey build a better basketball team in Philadelphia? (Moreyball 2.0?)
 - a. Morey was the general manager of the Houston Rockets and heavily implemented analytics into training the team (Moreyball)
 - b. "In the 2017-18 season the Rockets made more three-pointers than any other team in NBA history and this was a major reason they won more games than any of their rivals."
 - c. Problem Statement: This capstone aims to build a regression model with Houston Rockets data in order to predict how well the Philadelphia 76ers perform in the upcoming NBA season.
 - d. Regression model?
 - i. Rockets data is training set, 76ers data is testing set
 - e. Data sources
 - i. https://www.basketball-reference.com/
 - ii. https://www.nba.com/rockets/stats
 - iii. https://www.reddit.com/r/nba/comments/58oy95/im_rajiv_maheswa
 ran_ceo_of_second_spectrum_we/
 - iv. https://nba-py.readthedocs.io/en/latest/game/
 - v. https://www.nbastuffer.com/
 - vi. https://www.youtube.com/watch?v=oUvvfHkXyOA&ab_channel=Th
 eEconomist
 - vii. https://digital.hbs.edu/platform-digit/submission/moreyball-the-houst-on-rockets-and-analytics/

2. Predicting the Path and Time of a Hurricane

- Using a regression model to predict the possible paths of hurricanes for the next season and when they'll form
- b. Problem Statement: This capstone aims to build a regression model with past hurricane data in order to predict future hurricane paths and dates.

c. Data sources

- i. https://www.nhc.noaa.gov/data/
- ii. https://www.climate.gov/maps-data/dataset/historical-hurricane-tracks-qis-map-viewer

3. Album Cover Classifier

- Using a convolutional neural network to determine the music genre of an album by its cover art
- b. Problem Statement: This capstone aims to build a convolutional neural network to determine the genre of an album by its cover art

c. Data Sources

- i. https://archive.org/details/coverartarchive&tab=collection
- ii. https://coverartarchive.org/
- iii. https://www.cs.ubc.ca/~davet/music/covers/index.html