1. Predicting the Success of the 2020-21 Philadelphia 76ers: How will Daryl Morey build a better basketball team in Philadelphia? (Moreyball 2.0?)
   1. Morey was the general manager of the Houston Rockets and heavily implemented analytics into training the team (Moreyball)
   2. “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.”
   3. 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.
   4. Regression model?
      1. Rockets data is training set, 76ers data is testing set
   5. Data sources
      1. <https://www.basketball-reference.com/>
      2. <https://www.nba.com/rockets/stats>
      3. <https://www.reddit.com/r/nba/comments/58oy95/im_rajiv_maheswaran_ceo_of_second_spectrum_we/>
      4. <https://nba-py.readthedocs.io/en/latest/game/>
      5. <https://www.nbastuffer.com/>
      6. <https://www.youtube.com/watch?v=oUvvfHkXyOA&list=WL&index=34&ab_channel=TheEconomist>
      7. <https://digital.hbs.edu/platform-digit/submission/moreyball-the-houston-rockets-and-analytics/>
2. Predicting the Path and Time of a Hurricane
   1. Using a regression model to predict the possible paths of hurricanes for the next season and when they’ll form
   2. Problem Statement: This capstone aims to build a regression model with past hurricane data in order to predict future hurricane paths and dates.
   3. Data sources
      1. <https://www.nhc.noaa.gov/data/>
      2. <https://www.climate.gov/maps-data/dataset/historical-hurricane-tracks-gis-map-viewer>
3. Album Cover Classifier
   1. Using a convolutional neural network to determine the music genre of an album by its cover art
   2. Problem Statement: This capstone aims to build a convolutional neural network to determine the genre of an album by its cover art
   3. Data Sources
      1. <https://archive.org/details/coverartarchive&tab=collection>
      2. <https://coverartarchive.org/>
      3. <https://www.cs.ubc.ca/~davet/music/covers/index.html>