**DAT 205 Meeting Minutes Mar 3, 2021 at 2130hrs ET**

**Topic:** Team meeting – Project proposal and dataset selection

**Participants:**

Bhavika Patil

Cindy Guo

Dennis Hung

**Discussion**

* The NBA data was selected as the team project. Team Case Proposal was reviewed and update before submission as “Group 1-v07 FINAL”
* Looked into how the data can be analyzed and record suggested links going forward in the project
* **Descriptive analytics** ask about the past. They want to know what has been happening to the business **and** how this is likely to affect future sales. **Predictive analytics** ask about the future. These are concerned with what outcomes can happen **and** what outcomes are most likely.

Reference links

* Data gathering methods / tutorials
  + <https://www.playingnumbers.com/2019/12/how-to-get-nba-data-using-the-nba_api-python-module-beginner/>
  + <https://github.com/swar/nba_api/blob/master/docs/table_of_contents.md>
  + Others
    - <https://www.canadabasketballanalytics.com/2020/08/18/how-to-pull-nba-player-gamelog-data-using-python-and-nba_api/>
    - <https://www.analyticsvidhya.com/blog/2019/05/scraping-nba-data-analyze-1000-basketball-games-python/>
    - <https://www.kaggle.com/schmadam97/nba-playbyplay-data-20182019>
* Data Example
  + <https://ca.global.nba.com/statistics/?_ga=2.105778048.284049061.1614831989-1843647916.1614831989>
  + <https://www.nba.com/game/por-vs-cha-0021800944/play-by-play>
  + <https://www.basketball-reference.com/>
* Glossary / Terms
  + <https://en.wikipedia.org/wiki/Sabermetrics>
  + <https://jr.nba.com/how-to-read-a-box-score/>
  + [https://www.basketball-reference.com/about/glossary.html#:~:text=TOV%25%20%2D%20Turnover%20Percentage%20(available,0.44%20\*%20FTA%20%2B%20TOV).&text=Total%20rebound%20percentage%20is%20an,%2F%20(2%20\*%20TSA)](https://www.basketball-reference.com/about/glossary.html#:~:text=TOV%25%20%2D%20Turnover%20Percentage%20(available,0.44%20*%20FTA%20%2B%20TOV).&text=Total%20rebound%20percentage%20is%20an,%2F%20(2%20*%20TSA)).
  + <https://bleacherreport.com/articles/1813902-advanced-nba-stats-for-dummies-how-to-understand-the-new-hoops-math>
  + <https://en.wikipedia.org/wiki/Basketball_statistics>
* Analysis Examples / References
  + <https://klane.github.io/databall1/>
  + <https://towardsdatascience.com/building-my-first-machine-learning-model-nba-prediction-algorithm-dee5c5bc4cc1>
  + <https://www.reddit.com/r/nba/comments/8lvqkn/interesting_data_science_projects_with_stats/>
  + <https://www.reddit.com/r/datascience/comments/gjy5ub/nba_data_science_project_ideas/>
* Models
  + <https://towardsdatascience.com/introduction-to-random-forest-classifiers-9a3b8d8d3fa7>
* Graphs
  + <https://towardsdatascience.com/make-a-simple-nba-shot-chart-with-python-e5d70db45d0d>
  + <https://datavizardry.com/2020/02/03/nba-shot-charts-part-2/>

**Action Item**

None until after class.