**Project Proposal**

Project Title: Analysis of NHL Player Salaries from 2016-17 Season

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Project Description:

Using a data set for the 2016-17 NHL Season, we will compare player salaries against a variety of different categorical and scoring measures to find potential relationships.

We will exclude rookies and players that are still RFAs (restricted free agents) from our analysis. Entry level contracts are limited to a certain dollar value, and younger players that are still categorized as RFAs typically do not receive a large pay raise on their second contract. By limiting our data to only include UFAs, we will get a better understanding of how GMs are spending their money on veteran players.

Research Question: Are NHL GMs managing their salary caps wisely?

Data Set: NHL player data from the 2016-2017 season

Source: <http://www.hockeyabstract.com/>

Main Tasks: Acquire / Clean Data

Reformat / Subset Data

Data Visualization

PowerPoint Prep

Analysis Ideas:

* Average player salary by Country of Birth
* Salary vs.
  + Age
  + Overall Draft position [vs. PPG as bubble size]
  + Points per Game
  + Game Winning Goals
  + Penalty Minutes
  + Salary
  + *Corsi (puck possession)*
  + *PDO (shooting % + save %)*

We could potentially breakdown the data even further by:

* Position (forwards, defensemen)
* Team
* Country of Birth