**Known:**

1. Graph for point through career is most likely a polynomial curve in general where a lower point total happens at the first and last season.
   1. The polynomial will change depending on what stat is being considered.
2. This curve should be learned based off of other player’s at the stage in their career.
3. Useful data:
   1. Stats from player.
   2. Stats from other players at same career stage.
   3. Age of player.
   4. Trend lines for specific stats.
   5. Draft pick?
4. Harder to use data:
   1. Team strength.
   2. Medical data.
   3. Line chemistry.
   4. Out-of-game events.
   5. Media hype (would need web scraping and sentiment analysis).

**Potential Models:**

1. Linear regression.
2. Polynomial regression.
3. Neural network with stat embedding.

**Questions:**

1. Can I use a base line of 18-43 for curve mapping?
2. How can I use age here?
3. Incorporate draft ranking for rookie player?
4. Use the average goals per player age as a sort of hyperparameter to regularize the linear/polynomial regression.
   1. For example: If player A has 25 goals in his rookie season at 19 years old, we know that he is an above average player for his age. Thus, we can incorporate that with a ratio of goals scored/average of goals at age 19. Then use, that to predict ~30 goals for his 10 year old season.