

# Interim Report for Capstone Project for Ryerson CKME136

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<https://github.com/Deadlysmurf/Capstone>

## Individual Variable Research Questions

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### **Is there a salary difference between Country of Birth of the Player?**

Yes, at  $\alpha = 0.001$  there is a statistically significant salary difference between the country of birth of the player.

For more details, please refer to the applicable Jupyter Notebook.

### **Is there a salary difference between baseball seasons?**

Yes, at  $\alpha = 0.001$  there is a statistically significant salary difference between baseball seasons.

For more details, please refer to the applicable Jupyter Notebook.

### **Is there a salary difference between player**

**age?**

Yes, at  $\alpha = 0.001$  there is a statistically significant salary difference between player ages.

For more details, please refer to the applicable Jupyter Notebook.

**Is there a salary difference between player years?**

Yes, at  $\alpha = 0.001$  there is a statistically significant salary difference based on the number of years that a player has played in the major leagues.

For more details, please refer to the applicable Jupyter Notebook.

**Is there a salary difference between player weight?**

Yes, at  $\alpha = 0.001$  there is a statistically significant salary difference between the heights of the players.

For more details, please refer to the applicable Jupyter Notebook.

**Is there a salary difference between player height?**

Yes, at  $\alpha = 0.001$  there is a statistically significant salary difference between the heights of the players.

For more details, please refer to the applicable Jupyter Notebook.

## **Is there a salary difference between leagues?**

No, at  $\alpha = 0.001$  there is no statistically significant salary difference between the American and National baseball leagues.

This variable will be dropped from further analysis.

For more details, please refer to the applicable Jupyter Notebook.

## **Is there a salary difference between batting direction?**

No, at  $\alpha = 0.001$  there is no statistically significant salary difference based on the batting direction of the player.

This variable will be dropped from further analysis.

For more details, please refer to the applicable Jupyter Notebook.

## **Is there a salary difference between throwing hand?**

No, at  $\alpha = 0.001$  there is no statistically significant salary difference based on the throwing hand of the players.

This variable will be dropped from further analysis.

For more details, please refer to the applicable Jupyter Notebook.

## **Is there a salary difference between player position?**

Yes, at  $\alpha = 0.001$  there is a statistically significant salary difference between the position of the players.

For more details, please refer to the applicable Jupyter Notebook.

## **Is there a salary difference between number of appearances?**

Yes, at  $\alpha = 0.001$  there is a statistically significant salary difference between the number of appearances by a player.

For more details, please refer to the applicable Jupyter Notebook.

## **Is there a salary difference between number of positions played?**

Yes, at  $\alpha = 0.001$  there is a statistically significant salary difference between the number of positions played by a player.

For more details, please refer to the applicable Jupyter Notebook.