**Project #1**

**Project Title**: Impact of COVID-19 on Houston’s Workforce

Team Members:

**Josh Bond, Tia Anderson-Ortega, Anthony Goins, Janette Chairez, Krishna Pulipaka**

**Link to GitHub Repository**: <https://github.com/tiaortega/Group_4_Project_1>

**Project Description/Outline**:

Analysis of Job Turnover and Separation because of COVID-19 by using Patient Positivity and Negativity Results Over Time

**Research Questions and Answers**:

1. ~~How did parent’s staying home impact children’s health during the pandemic?~~
2. ~~How having to care for or family member impact the parents?~~
3. **Have any specific industries affected more than others?**
4. **Which age-group is most impacted?**
5. ~~Did teenagers that worked in essential service sectors tested positive?~~
6. ~~Single parent household analysis vs. both parents household~~
7. ~~Comparing CDC and BLS data to see correlation, age group, industry stats~~
8. **Compare TX and NY and perform t-tests, calculate p-value etc.**
9. **Make an Assumption – Unemployment Rates and Claims are directly correlated to COVID-19 cases/deaths (Comparing July 2019 and July 2020 data)**

**Data Sets to be Used:**

Patient COVID-19 Test Results (.csv file)

Api.tracking.com - Daily by State (TX and NY)

Bureau Labor Statistics (BLS) TX Data ? (Free API) – version 2

**Rough Breakdown of Tasks**:

* Creating the GitHub – Tia – Done
* Obtain data sets from the hospital – Janette
* Clean up COVID-19 API – Krishna
* Clean up BLS API – Anthony

Finalize this by Tuesday (9.15.20)

* Create MatPlotLib Visualizations:
  + (1) Geo Map Visualizations – Krishna
  + (2) Line Graphs – Date/Time - Anthony
  + (2) Bar Graphs - Tia
  + (2) Pie Chart and Scatter Plot – Janette

Complete by Thursday (9.17.20)

* Statistic Measures and Box Plot – Josh (9.17.20)
* Documentation – (refer to SpaCy documentation) – ALL – 9.19.20
* Write Up/Presentation (Power Point And Readme) – ALL – 9.19.20