

# Suleman Ahmed

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## EDUCATION

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- University of Miami** **Coral Gables, FL**  
*M.S. in Mechanical Engineering* *May 2022*
- The City University of New York, Queens College** **Flushing, NY**  
*B.A. in Physics, B.S. in Quantitative Economic* *December 2019*

## RESEARCH AND PROJECTS

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### ML Project: Covid-19 Effects on NYC Taxis

- Concentrated on understanding the relationship between the Covid-19 pandemic and business indicators for NYC taxis.
- Executed classification and regression methods such as gaussian mixture model, clustering, and random forest, to distinguish between different features that had impacted vital metrics.
- Designed visual elements to effectively convey data and key concepts by using multiple python library packages.

### Thesis Project: Nuclear Power Plants and Housing Prices

- Discovered effects of the 2011 Fukushima Disaster, with prices of residential houses & distance from nuclear power plants.
- Aggregated and organized more than 10,000 data points using Python libraries such as Pandas, and geocoding API's.
- Conceptualized and implemented linear regression models to determine the relationship, using RStudios.

## PROFESSIONAL EXPERIENCE

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### The Boeing Company

**Miami, FL**

*Quality Engineering Intern*

*June 2021 – August 2021*

- Coordinated with quality engineers in reducing paperwork defects to less than 5% and promoting conformance of materials.
- Re-engineered documentation on crucial quality performance indicators for products sold to more than 100 customers.
- Conducted data analysis to examine, validate, and influence manufacturing processes taken place in the facility, increasing the efficacy of products by 5%.

### Cumulus Media

**Miami, FL**

*Freelance Data Scientist*

*September 2020 - May 2021*

- Monitored key parameters in advertisement data to push impressions that would reach over 22 million people nationwide.
- Devised high functioning data pipelines to automate big-data inputs while delivering results accurate to 97% for client.
- Built a predictive model to analyze future trends in popular podcasts leading to an increase of 20% in active listeners.

### Ateaz Organic Coffee and Tea

**New York, NY**

*Store Manager*

*July 2016 – June 2019*

- Fostered a team of 10 employees in establishing proper workflow, allowing optimal productivity among the environment.
- Regulated the store's sanitary conditions in accordance with the Department of Health to maintain 0 violations.
- Enabled operational procedures to diminish food and coffee waste to lower than 10%, maximizing efficiency in the store.

## Technical Skills

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**Tools:** Python, Rstudios, PostgreSQL, MATLAB, C++, Linux, AWS, LaTeX, Microsoft Office.

**Packages:** NumPy, Pandas, Matplotlib, Scikit-learn, Statsmodel, Keras, Pytorch, Jupyter Notebook.

**Machine Learning:** Random Forest, Linear/Logistic Regression, Neural Networks, Clustering, SVM, supervised/unsupervised learning.

## INTERESTS and ACTIVITIES

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**Interests:** Traveling, Cycling, Weight Training, Car Enthusiast, Artificial Intelligence, and Technology.

**Activities:** Treasurer of Physics Club, Research Analyst at the International Socioeconomic Laboratory of Harvard Innovation Lab.