

SAI MEDHINI REDDY MARYADA

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EDUCATION

University at Buffalo, The State University of New York

Aug 2022

Masters in Engineering Science - Data Science, G.P.A: 3.67 / 4

Coursework: Statistical Learning and Data Mining, Machine Learning, Data Models Query Language

Jawaharlal Nehru Technological University Hyderabad, India

Sept 2020

Bachelors in Mechanical Engineering, G.P.A: 9.25 /10

Coursework: Operations Research, Computer Programming and Data Structures, Computational Mathematics

TECHNICAL SKILLS

Programming Languages: SQL, Python, C, Basic R Programming, MATLAB.

Databases: MySQL, PostgreSQL, Snowflake, Teradata.

Data Tools: Microsoft Excel, Microsoft Power Apps, Tableau, Jupyter Notebook, R studios.

Machine Learning: Statistical Modelling, Data Mining, Predictive Analysis, Data Visualization, Data Analysis.

EXPERIENCE

Assistant Systems Engineer | Tata Consultancy Services TCS | India

Mar 2021 - Aug 2021

- Developed an employee satisfaction assessment app for Mars using Microsoft Power Apps.
- Acquired good technical and problem-solving knowledge by attaining certifications in Data Analysis and Visualisation with Python, Databases and SQL for Data Science, Intro to Data Analytics for Business.
- Attended a variety of training sessions including Python, R, and SQL.

FMCG Analytics Intern | Quantum Analytics Pvt Ltd | India

Jan 2020 - July 2020

- Helped the FMCG vertical by comparing the revenue generated by each client for Quantum against their market sales to prioritize business development opportunities.
- Worked for Sanofi, a global biopharmaceutical company, on projects including product pricing, promotional effectiveness calculation, segment-wise and online vs offline sales analysis, and delivered dashboards. Tools used- Snowflake, Advanced Excel, Tableau.
- Migrated multiple critical workpieces from SQL(Teradata) to SQL(snowflake) and from Scala to Pyspark.
- Provided insights on customer purchase patterns during COVID for FMCGs by analyzing the customer data of Woolworths, an Australian retail company.

Research Intern | Defence Research and Development Laboratory | India

May 2019 - June 2019

- Performed research on Machining equipment in the Department of Engineering.

Missile Design Intern | Bharat Dynamics Limited BDL | India

May 2018 - June 2018

- Developed clamping jaws for machining Aakash missile component front-end.
- Tools used- Catia for design, Ansys for analysis and CNC machines for manufacturing.

PROJECTS

Customer Segmentation

- Obtained customer segments based on their historical purchase trends with an accuracy of 90%.
- Performed K-Means & Hierarchical clustering and assessed the model performance.

US Census Data Analysis

- Performed Exploratory data analysis & Feature extraction on the census data.
- Examined links between different demographic attributes by using Matplotlib in Jupyter Notebook.

Stock price prediction

- Predicted Amazon stock prices using time series analysis and achieved an accuracy of 86%.
- Algorithms used- Linear Regression, K-Nearest Neighbor Regression, Neural networks and compared them to spot the accurate model.

Self-Powered Pedal Assist Bicycle Development

- Designed a bicycle with pedal assist to minimize pedaling effort by using the rotational energy of the bicycle wheel.
- Dynamos, Pedal Assist, Battery and Sensors are used.