

Vatsalya Anand

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EDUCATION

State University Of New York At Buffalo

Master of Science in Data Science

Buffalo, NY

January 2023 – May 2024

Birla Institute of Technology and Science, Pilani

Bachelor Of Engineering in Civil Engineering with Minor in Finance

Pilani, India

August 2017 – July 2021

EXPERIENCE

Data Scientist(Project Engineer)

July 2021 – December 2022

Wipro Ltd.

Mumbai, India

- Spearheaded the implementation of predictive models, employing cutting-edge algorithms including decision trees and neural networks in R and Rattle. Achieved significant cost reduction in cold calling operations.
- Pioneered the development of automated visualization dashboards, seamlessly integrating BI tools such as Power BI and ServiceNow. This innovation streamlined workflows, eliminating manual interventions and enhanced business.
- Innovatively engineered a Python-based web scraper to efficiently extract data from internal websites. Designed and implemented a robust ETL process to seamlessly load extracted data into Microsoft SQL servers, optimizing data management and accessibility.

Data Analyst Intern

July 2020 – December 2020

Cuemath Private Limited

Bengaluru, India

- Conducted in-depth analysis of Funnels, Uninstalls, and Retention Cohorts using a combination of Python and SQL (Redshift), extracting actionable insights to drive strategic decision-making.
- Spearheaded the integration of Big Query with CSV files stored in Buckets on the Google Cloud Platform, architecting new table schemas. This initiative optimized data storage and accessibility, contributing to streamlined data management processes.
- Applied advanced web scraping techniques using Selenium in Python to extract Daily Active Users (DAU) and Monthly Active Users (MAU) data from AppsFlyer. Leveraged pandas dataframes to generate comprehensive reports, providing valuable metrics for performance evaluation and strategic planning.

PROJECTS

Fake News Detection | Python, Flask

- Engineered and implemented an effective fake news detection model using NLP and deep learning (CNNs, Bi-LSTMs), showcasing strong skills in Python programming and data preprocessing.
- Optimized and fine-tuned the model for superior performance, culminating in the successful integration into a user-friendly web application using Flask. This implementation allowed users to assess the authenticity of news.

Analysis of Traffic Stop Receipts | Python, SQL, Flask

- Applied advanced SQL operations in PostgreSQL to analyze traffic stop data, revealing key patterns and trends through statistical analysis, enhancing data-driven decision-making in law enforcement.
- Leveraged Flask and Python to construct a dynamic web app seamlessly integrating with PostgreSQL. The interface allows stakeholders to efficiently access and visualize traffic stop data.

Mean Areal Computation of Rainfall | Python, Pandas

- Developed a Python-based automation system utilizing Pandas DataFrames and GeoPandas GeoDataFrames for efficient computation of Mean Areal Rainfall, showcasing proficiency in data manipulation and spatial analysis.
- Implemented visualization components to represent Mean Areal Rainfall patterns, enhancing data interpretation and providing valuable insights.

TECHNICAL SKILLS

Languages: Python, R, MATLAB, SQL (PostgreSQL, Redshift, SQLite)

Libraries: NumPy, Pandas, Matplotlib, Plotly, Sklearn, Dplyr, TidyR, ggplot2, Shiny, PyTorch, Rattle

Machine Learning: Regression, Classification, GAN, CNN, LSTM, Ensemble, Hypothesis Testing

Tools: Git, MS 365, AWS Cloud, Azure, PowerBI, Service Now