

Vatsalya Anand

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EDUCATION

University at Buffalo, The State University Of New York

January 2023 – May 2024

Master of Science in Data Science

Birla Institute of Technology and Science, Pilani

August 2017 – July 2021

Bachelor Of Engineering in Civil Engineering with Minor in Finance

EXPERIENCE

Wipro

July 2021 – December 2022

Data Scientist

Mumbai, India

- Spearheaded implementation of predictive models, employing cutting-edge algorithms including decision trees and neural networks in R and Rattle. Achieved a cost reduction of 10% in cold calling operations.
- Pioneered development of automated visualization dashboards, seamlessly integrating BI tools such as Power BI and ServiceNow. This innovation streamlined workflows, eliminating manual interventions of 5 people.
- Innovatively engineered a Python-based web scraper to efficiently gather data from internal websites. Designed and executed a robust ETL process to seamlessly load obtained data into Microsoft SQL servers, enhancing data management and accessibility.

Cuemath

July 2020 – December 2020

Data Analyst Intern

Bengaluru, India

- Conducted in-depth analysis of Funnels, Uninstalls, and Retention Cohorts using a combination of Python and SQL (Redshift), deriving actionable insights to improve overall retention on app by 8%.
- Spearheaded integration of Big Query with CSV files stored in Buckets on the Google Cloud Platform, architecting new table schemas. Initiative revamped data storage and accessibility, contributing to streamlined data management processes and saving daily manual labor of approximately 1.5 hours.
- 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 data frames to generate comprehensive reports, providing valuable metrics for performance evaluation and strategic planning.

PROJECTS

End to End MLOps | Python, Docker, AWS

- Designed and performed a comprehensive MLOps project, employing Python, Docker, and Flask to create a modular architecture for seamless data processing, model training, and deployment.
- Orchestrated CI/CD pipelines with GitHub Actions, deploying project onto AWS ECR and managing its execution on AWS EC2 instances, ensuring continuous integration and deployment in a production environment.

Fake News Detection | Python, Flask

- Engineered 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 model for superior performance, culminating the integration into a user-friendly web application with Flask. This implementation allowed users to assess 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. Interface allows stakeholders to efficiently access and visualize traffic stop data.

TECHNICAL SKILLS

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

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

Machine Learning: Regression, Classification, GAN, CNN, LSTM, Deep Learning, Transformers, Ensemble

Tools: Git, Docker, AWS Cloud, Azure, GCP, MS 365, PowerBI, Service Now, Hadoop, Spark