Vatsalya Anand

vatsalya.anand@gmail.com | (716) 247-3950 | linkedin.com/in/vatsalyaanand | github.com/vatsalyaanand

EDUCATION

University at Buffalo, The State University Of New York — **Buffalo, NY**
Master of Science in Data Science; GPA 3.63/4.0 — May 2024
Relevant courses: Machine Learning, Deep Learning, Data Model Query Language, Data Intensive Computing, Python and Database, Time Series Forecasting, Probability and Stochastic Processes

Birla Institute of Technology and Science (BITS), Pilani — **Pilani, India**
Bachelor of Engineering — Jul 2021
Relevant courses: Probability and Statistics, Numerical Techniques, Programming, Applications of AI

SKILLS AND CERTIFICATIONS

Programming Languages: Python, R, SQL (PostgreSQL, Redshift, SQLite), MATLAB
Technologies: AWS (EC2, ECR, Bedrock, SageMaker, CloudWatch), Azure, GCP, Docker, Git, Hadoop, Apache, Spark
Tools and Frameworks: NumPy, Pandas, Matplotlib, Plotly, Scikit-learn, PyTorch, Flask, Shiny, ggplot2, PowerBI
Machine Learning: Regression, Classification, Time Series, GAN, CNN, LSTM, Transformers, Ensemble, NLP,LLM
Certifications: Azure AI Engineer Associate (Microsoft), ML on Google Cloud (Google)

EXPERIENCE

Wipro — **Mumbai, India**
Data Scientist — Jul 2021 – Dec 2022
- Guided AI initiatives, employing decision trees and neural networks in Python, R lowering cold calling costs by 10%.
- Automated workflows with Power BI and ServiceNow dashboards, eliminating manual tasks for 5 team members.
- Enhanced data retrieval times by 30% by creating a Python web scraper to collect data from 10+ internal sites and designing an ETL process for Microsoft SQL servers.

Cuemath — **Bengaluru, India**
Data Analyst — Jul 2020 – Dec 2020
- Boosted app retention by 8% by analyzing funnels, uninstalls, and retention cohorts using Python and SQL.
- Streamlined data storage processes, saving 1.5 hours of daily labor by integrating Redshift with CSV files in AWS S3.
- Elevated user acquisition and engagement by 12% by optimizing $150k/year marketing campaigns on Google Ads, Apple Search Ads, and Facebook Business.

PROJECTS

End to End MLOps | Python, Docker, AWS
- Designed an MLOps project using Python, Docker, and Flask for seamless data processing, training, and deployment.
- Orchestrated CI/CD pipelines with GitHub Actions, deploying projects to AWS ECR and managing on AWS EC2.
- Implemented monitoring and logging using AWS CloudWatch to ensure robustness and reliability of deployed models.

Fake News Detection | Python, Flask
- Developed a fake news detection model leveraging NLP and Deep Learning (CNNs, Bi-LSTMs).
- Optimized model performance and integrated it into a user-friendly Flask web application to assess news authenticity.
- Scraped multiple news websites and performed extensive preprocessing to create comprehensive dataset for accuracy.

Analysis of Traffic Stop Receipts | Python, SQL, Heroku
- Applied advanced SQL operations in PostgreSQL to analyze traffic stop data, revealing key patterns and trends.
- Built dynamic Flask and web app enabling stakeholders to access and visualize traffic stop data via PostgreSQL.
- Deployed the application on Heroku, ensuring high availability, scalability, and ease of access for users.