Vamshi Krishna Reddy Attla

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Education

Florida Institute of Technology, Melbourne, Florida
Master's Computer Science | Expected May 2025
Relevant Coursework: Database Management, Cryptography, Computer Information Security, Computer Vision

Graphic Era Hill University, Uttarakhand, India
B.T in Computer Science & Engineering, 3.55 GPA | May 2023
Relevant Coursework: Software Management, Networking and Security, Machine Learning

Experience

VRRC company, *Signaling Data Analyst Intern*
Andhra Pradesh, India [July 22 – April 23]

- Assisted in analyzing railway signaling data from MSDAC, BPAC, and Data Loggers to learn about anomaly detection and traffic flow patterns.
- Gained hands-on experience with SQL and Python for basic data extraction and cleaning tasks related to train movements and axle counting.
- Supported the development of simple Power BI dashboards to visualize block section occupancy and train status under supervision.
- Contributed to team discussions by compiling preliminary reports on data irregularities and system performance observations.

Projects

AI-Based Fraud Detection in Banking| Aug 24 - Nov 24 [Team of 2]
Tech Stack: Python, Sql, Power BI, R
We started by collecting and preprocessing historical transaction data, ensuring data integrity using SQL. Next, we performed exploratory data analysis (EDA) in R to identify fraudulent patterns. Machine learning models (Random Forest, XGBoost) were trained in Python for fraud detection, and Power BI was used to create a real-time fraud monitoring dashboard. The system was integrated with SQL queries for live transaction analysis.

Retail Sales Forecasting & Analytics | Mar 24 - Jun 24 [Team of 2]
Languages Used: Python, Sql, Power BI
Initially, we designed a relational SQL database to store retail sales data and built ETL pipelines for efficient data loading. We conducted deep EDA using SQL queries and R for trend analysis. Time series forecasting models (ARIMA, Prophet) were developed in Python, with predictions stored back in SQL. Power BI dashboards were created to visualize key insights like seasonal trends and inventory needs.

Self-Driving Car Simulation | Udacity | Oct 22 - Apr 23 [Team of 4]
Tech Stack: Python
Created an autonomous driving model using the Udacity simulator, training the car to interpret and respond to real-time data inputs. Our iterative approach in this virtual environment enabled us to fine-tune the car's performance, achieving reliable navigation and data-backed decision-making. Udacity's robust simulator was pivotal for both training efficiency and precise testing, making it a key asset in our project's success.

Skills & Tools

- Technical Languages: Python, C, R
- Web Technologies: HTML & CSS, PHP, XML
- DB/Server Technology: MySQL
- Operating Systems: Linux, Windows
- Design & Miscellaneous Tools: Microsoft Office, Power BI, Tableau
- Development Environment: PyCharm, VS Code, Jupyter Notebook, Data Modelling & Understanding

Achievements

- I earned IBM certifications in Data Science and Cyber Security, showcasing proficiency in key industry skills.
- Published a research paper titled *Self-Driving Car Simulation* in the *International Journal of Science and Research (IJSR)* during the final year of undergraduate studies. The paper, published in Volume 12 (ISSN: 2319-7064), explores the Udacity simulator, data training, and testing methods (Paper ID: SR23501114821).
- **Accenture Data Analytics Virtual Experience** (Feb 2025); Analyzed datasets to uncover trends and presented insights through reports and presentations.