Vishnuram Jatin Bangaru

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EDUCATION

Rutgers University, *Masters in Data Science - Statistics (GPA; 3.8)* 2024 May │ New Brunswick, USA
Regression and Time Series Analysis, Data Mining, Statistical Modeling and Computing, Data Wrangling and Husbandry, NLP

Vasavi College of Engineering, *BE, Information Technology (8.84/10)* 2020 Sep │ Hyderabad, India

SKILLS

Computing and Programming:
Python, R, Java, C

Framework and Technologies:
JupyterLab, Tableau, Terraform,
LangChain, MS Excel, Streamlit,
Django

Database:
Postgres, Snowflake, MongoDB

Machine Learning
Regression, Classification Algorithms,
Logistic Regression, Deep learning

Libraries:
Pandas, NumPy, PyTorch, Scikit-learn,
Plotly, Flask, TensorFlow

Cloud Computing:
AWS Glue, Lambda, S3, IAM, Lake
Formation

PROFESSIONAL EXPERIENCE

AI Engineer Intern, *EliteUS Software Solutions* 2024 Feb – present
- Led PEFT fine-tuning of Mistral AI's LLM for a Medical Chat Bot, integrating it with LangChain, incorporating RAG for enhanced contextual relevance.
- Created a Streamlit Web App for Resume Analysis, utilizing Mistral AI parsing with RAG, storing entities in Neo4j, and displaying visualizations.

Quantitative Research Assistant, *Cornwall Center, Rutgers University* 2023 May – present
- Performed quantitative analysis on US Census metrics and employed data visualizations to analyze metrics of Newark County on Tableau.
- Handled data for Disabled Students, plotted visualizations on Tableau, and drafted reports for enhanced insights.
- Developed an Admin Web Application using Django and deployed it on AWS Lambda for efficient and scalable operations.

Senior Software Analyst - Data Science, *EnergyTech Global Pvt.Ltd.* 2022 Apr – 2022 Aug │ India
- Executed Dimensional Modeling Pipeline to enhance dashboard and query efficiency, providing stakeholders with insightful data access and elevating overall business processes.
- Used XG Boost for debt prediction, achieving a notable 60% improvement in identifying debt-free customers.
- Implemented the utilization of Cross Account functionality on AWS, resulting in enhanced security and seamless collaboration across multiple accounts.
- Mentored Interns, conducted code reviews and followed Agile Methodologies for project management.

Key Achievement: Awarded the Best Performer of the Quarter for smoothly handling the entire migration to AWS Cloud.

Software Analyst - Data Science, *EnergyTech Global Pvt.Ltd.* 2020 Jul – 2022 Mar │ India
- Implemented decile method for feature engineering and built an 85% accurate Random Forest churn model, which resulted in boosting the retention rate.
- Created Python and SQL data pipelines to streamline campaign management, reducing time and enhanced performance reporting across multiple marketing channels.
- Contributed to a Flask-based conversation prompter on AWS Lambda, reducing customer issue resolution time and enhancing the product user experience.
- Implemented best practices in company data security by utilizing AWS Lake Formation and IAM-based User Access Control to safeguard the Data Lake.
- Designed relational database schemas and infrastructure pipelines containing procedures and views.

Key Achievement - Received a Pat on Back Award for efficiently deploying the Churn model and developing the conversation prompter.

Intern, *EnergyTech Global Pvt.Ltd.* 2020 Jan – 2020 Jul │ India
- Conducted exploratory data analysis and presented insights on Superset contributing to the company's data-driven decision-making process.
- Examined data to establish visualizations on customers metrics utilizing AWS Lambda resulting in a reduction in overall workload of customer support team.

PROJECTS

2023 Travelers Analytics Case Competition ⧉
- Achieved third place and earned the title of campus winner by accurately predicting insurance claim cost.
- Optimized Tweedie Regressor for zero-inflated claim cost data using with Gini-Index metric.

Is it Real? News Claim Verification Through Recognizing Textual Entailment ⧉
- Developed a multi-step pipeline using DrQA, MiniLM, and Claim Verification to bolster real-world claim verification.