Vishnuram Jatin Bangaru

vishnuramj10@gmail.com   7325226422

https://www.linkedin.com/in/vishnuram-jatin/   https://github.com/vishnuramj10

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

Osmania University, *BE, Information Technology (8.84/10)*   2020 Sep │ Hyderabad, India

SKILLS

Computing and Programming:
Python, Pyspark, R, Java, C, SQL(Postgres), HTML, CSS, Javascript

Framework and Technologies:
LangChain, JupyterLab, Tableau, Databricks, Snowflake, Terraform

Cloud Computing:
AWS Glue, Lambda, S3, IAM, Lake Formation, Bedrock, Azure, Google Cloud Platform

Libraries:
Pandas, NumPy, PyTorch, TensorFlow

Machine Learning:
Classification Algorithms, Decision Trees, Clustering, Neural Networks

Certifications
Oracle Cloud Infrastructure 2024 Generative AI Professional

PROFESSIONAL EXPERIENCE

AI Engineer, *EliteUS Software Solutions*   2024 May – present │ Edison, US
- Engineered a Multimodal-RAG chatbot utilizing keyword vector search using to deliver help desk instructions containing images.
- Developed an SQL chatbot with a quantized LLaMA model to streamline SQL generation to reduce manual query effort.
- Built an AI-powered resume analysis tool using Bedrock's Mistral AI, featuring AI-driven profile search from MongoDB.

AI Engineer Intern, *EliteUS Software Solutions*   2024 Feb – 2024 May │ Edison, US
- Fine-tuned the Mistral AI model with PEFT to improve its ability to respond to customer product queries.
- Deployed the fine-tuned model using LangServe for efficient production use.

Quantitative Research Assistant, *Cornwall Center, Rutgers University*   2023 May – 2024 Jun │ Newark, US
- Conducted quantitative analysis on US Census data and utilized Tableau to examine metrics for Newark County.
- Handled data for Disabled Students, plotted visualizations on Tableau, and drafted reports for enhanced insights.
- Developed an Admin Web Application using Django, deployed on AWS EC2, utilizing NGINX and Gunicorn.

Senior Software Analyst - Data Science, *EnergyTech Global Pvt.Ltd.*   2022 Apr – 2022 Aug │ India
- Implemented a Dimensional Modeling Pipeline on AWS to enhance dashboard efficiency and data access.
- Utilized XGBoost for debt prediction, increasing accuracy in identifying debt-free customers by 60%.
- Leveraged Cross Account functionality on AWS, enhancing security and 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
- Experience in developing multivariate predictive models, particularly for churn analysis using the Tree Based Models.
- Developed Python and SQL pipelines to streamline campaign management and boost reporting efficiency by 70%.
- Developed a customer-info retrieval tool with Python, SQL on AWS Lambda enhancing customer service satisfaction.
- Applied AWS Lake Formation and IAM-based User Access Control to ensure data protection of the Data Lake.
- Designed SQL 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.

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 NLP pipeline using DrQA, MiniLM, and Claim Verification using LLMs to bolster real-world claim verification.

PCA Analysis and ML Modeling on Brain Tumor Classification (Python) ⧉
- Leveraged advanced analytics methods like PCA, Sparse PCA, and Kernel PCA, to perform dimensionality reduction on brain tumor image data to facilitate comparision of ml models.