Pragathi Gopishetty

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SUMMARY

Experienced Data Analyst with 3+ years of expertise in statistical analysis, data modelling, data visualization, and machine learning. Skilled in Python, SQL, and Tableau, proficient in optimizing ETL processes, database management, and delivering actionable insights. Eager to apply analytical skills in a collaborative team environment.

EDUCATION

Masters, Data Science — *Aug 2021 - May 2023*
University of Maryland Baltimore County — GPA: 3.9
Bachelor of Technology, Computer Science and Engineering — *Jun 2016 - Apr 2020*
MLR Institute of Technology — GPA: 3.8

SKILLS

Programming Languages: Python, SQL, R
Databases: MySQL, PostgreSQL
Business Intelligence & Reporting: Tableau, PowerBI
Project Management & Collaboration : Jira, Agile Methodology, Git
Big Data & Cloud: AWS(EC2, S3, Lambda, SNS, RDS, EMR), Spark, Spark SQL, PySpark
Machine Learning & Artifical Intelligence : Machine Learning(Random Forest, Gradient Boosting), Deep Learning, Neural Network, Natural Language Processing
Libraries: Pandas, NumPy, Scikit-learn, Matplotlib, TensorFlow, PyTorch

EXPERIENCE

Research/Teaching Assistant, University of Maryland Baltimore County — *Aug 2022 - May 2023*

- Played a pivotal role as a grader and subject-matter expert for Machine Learning and NLP courses, consistently demonstrating proficiency in course content.
- Enhanced students academic performance and understanding by conducting office hours, efficiently addressing and clarifying their course-related doubts.
- Analysed business requirements to compose functional implementable data solutions. Using machine learning algorithms predicted the percentage of members enrollment for medical services for old age and chronic disease people.
- Performed data mining, pre-processing techniques for analysing the customer data for various clients. Used tableau to make visualizations on the dataset and monitor data to show the predicted behaviour and existing analytics.

Data Analyst, Flujo Technologies — *Jun 2019 - Aug 2021*

- Constructed a chat-based conversational AI application using Lex, Kendra and processed 1000 user requests and returned responses using Lambda, resulting in 50% reduction in response time and 20% increase in user satisfaction.
- Collaborate with stakeholders to define business objectives, analytical, problem-solving with attention to detail.
- Formulated and implemented a chatbot with multi-user support, which improved 10% scalability and performance across multiple clients.
- Orchestrated and oversaw containerized applications using ECS, EKS. Conducted API testing using Postman to identify and resolve performance issues, resulting in a 25% increase in API performance.
- Monitored and maintained the chatbot performance using CloudWatch and Load balancer. Wrote CloudFormation scripts to quickly spin up all of the tasks and then deployed them using bash scripts.
- Highly motivated and collaborative team player with strong interpersonal, communication skills.

PROJECTS

Machine Translation English/Telugu
Developed Deep Learning APIs integrating deep neural networks frameworks like TensorFlow or PyTorch for translating sentences from English to Telugu. Trained models encompassing LSTM, GRU, Transformer, and Encoder-Decoder architectures using Transformer mechanisms.

Maryland Crashes Analysis based on weather
Conducted data cleaning, performed analysis and interpret data of Maryland crash data using PySpark Databricks to identify rain and snow as key conditions in accidents, informing targeted driver safety interventions. Built diverse datasets via EDA, data transformation, uncovering a correlation between young driver accident rates and weather conditions.

Payment mode prediction for Chicago Taxi Trips
Utilised Python and SQL for data cleaning, data analysis and data management of Chicago taxi trips, applying supervised and unsupervised algorithms to accurately predict payment modes. Used data validation and quality checks to identify anamolies. Incorporated Azure Machine Learning to enhance model performance, visualized via Tableau for day-to-day monitoringăand execution. Presented through a streamlit based interactive webpage for user interaction.