Vamshi Maya

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Education

University of Texas at Dallas — Dallas, TX
Master of Science in Information Technology and Management, GPA 3.6/4 — *Aug. 2023 – Dec 2024*

MLR Institute of Technology — Hyderabad, India
Bachelor of Technology in Electrical and Electronics Engineering, GPA 9.0/10 — *Aug. 2019 – May 2023*

Experience

Python Developer Intern — Nov. 2024 – Mar 2025
UnicGate — *Dallas, TX*

- Designed and deployed an NLP-driven chatbot using Google DialogFlow, reducing manual query handling by 30% and achieving 75% automation
- Integrated RESTful services with Google Sheets for real-time data ingestion, automating lead capture and streamlining workflows by 20%
- Built and optimized deep learning models using PyTorch, targeting edge deployment with quantization techniques
- Developed scalable AI systems in Python using object-oriented design, modular architecture, and best practices in MLOps for seamless model training, evaluation, and deployment
- Enhanced web platform functionality using WordPress with intuitive UX tailored for universities and startups

Software Engineering Intern — Oct. 2022 – May 2023
DXC Technologies — *Hyderabad, India*

- Developed the 'Melange' Android app using Java and Firebase to manage event schedules, hotel allocations, and reminders
- Migrated SOAP to REST APIs with Spring, improving throughput by 25% and latency by 18%
- Improved UI responsiveness and UX using HTML, JavaScript, and jQuery for client-facing features
- Automated reporting in Tableau by translating business requirements, saving 13+ hours of manual effort weekly
- Enhanced performance with multithreading, implemented unit testing using Jest, and streamlined DB access with Spring Data JPA and JDBC

Projects

Large-scale Geo-Spatial Data Analysis | *Python, Apache Spark, Scala, AWS* — Jan. 2024 – May 2024

- Performed hot zone and hot cell analysis on large-scale spatial data using Spark to rank the top 30 hot zones
- Performed spatial queries on a large database containing geographic data and real-time location data
- Helped a taxi firm in New York with their operational and strategic decisions
- Analyzed New York's Yellow cab taxi dataset to recognize high pick-up probability areas within New York and increased the pick-up rate by 40% by abiding by recommendations from the analysis

Sentiment Analysis using ELMo and BERT | *Python, TensorFlow, NLP, SVM, Git* — Aug. 2024 – Oct. 2024

- 9873 reviews of films from various customers were collected. To identify if the review was a positive/ negative/ neutral review and preprocessing were done along with text normalization
- Imported and used pre-trained ELMO model from TensorFlow and Google BERT model, where we extracted ELMO vectors and BERT vectors for the cleaned tweets
- Used classification models like SVM and got an evaluation score of 89% with each one of these vectors

Technical Skills

Languages: Python, C/C++, Java, Kotlin, SQL, JavaScript, HTML/CSS
Frameworks: React, Node.js, Spring Boot, Pandas, Numpy, Pytorch, Tensorflow
Developer Tools: Git, Docker, Flask, MySQL, AWS
Certifications: AWS Cloud Practitioner – EC2, ECS, EKS, ECR, S3, RDS, SQS, VPC, Subnets, Security Groups
Achievements: Competitive Programming – Achieved a rating of 1700 on Codeforces, 1800+ on Leetcode, and solved 1500+ problems