TIRUMALA TEJA YEGINENI

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SUMMARY

Motivated Data Scientist and MLOps Engineer with strong experience in machine learning, cloud deployment, and data pipeline automation. Hands-on with AWS, TensorFlow, and Docker to build scalable ML solutions from data ingestion to production. Currently pursuing M.S. in Data Science at the University of North Texas with a focus on cloud-native AI systems and real-time data analytics.

TECHNICAL SKILLS

Programming & Scripting: Python, Go, SQL, Shell Scripting, YAML, HTML, CSS
Machine Learning & AI: Deep Learning, NLP, Computer Vision, Image Processing, Generative AI
Frameworks & Libraries: TensorFlow, PyTorch, scikit-learn, Keras, XGBoost, Pandas, NumPy, Matplotlib, Seaborn
MLOps & Automation: AWS SageMaker, MLflow, DVC, Weights & Biases, Docker, Kubernetes, Terraform, Prometheus, Grafana, GitHub Actions
Cloud & Big Data: AWS, Azure Databricks, Snowflake, Apache Spark
Data Engineering & Databases: SQL, DBMS, Database Design, ETL Pipelines
Visualization & BI: Power BI, Tableau
Soft Skills: Public Speaking, Leadership, Teamwork, Cross-Team Collaboration, Time Management

PROJECTS

- Fraud Detection Pipeline | AWS, MLflow, DVC, FastAPI, Docker, Terraform

- Built an end-to-end fraud detection system on AWS (EKS + ECR + S3) integrating data versioning and experiment tracking with DVC and MLflow.
- Deployed FastAPI service with CI/CD via GitHub Actions and container orchestration using Kubernetes.
- Achieved 98% recall and reduced prediction latency by 30%.

- Air Quality Prediction System | Python, XGBoost, Flask, Grafana, Prometheus

- Developed PM2.5 forecast model using EPA and NOAA datasets to predict Air Quality Index categories.
- Optimized model through feature engineering and visualized trends in Grafana dashboards with Prometheus monitoring.
- Achieved 97.8% classification accuracy on test data.

- Plant Leaf Disease Detection | TensorFlow, Deep Learning, CNN, Fast API

- Trained CNN models for leaf disease classification using transfer learning.
- Implemented image augmentation and real-time inference via Flask web interface.

- Blue-Voice CNC Writing Machine | IoT, Bluetooth Automation

- Built a Bluetooth-enabled CNC writing system to assist physically challenged users in automated writing tasks.
- Winner, Smart India Hackathon 2022 and TECH SRUSHTI-2K21.

EDUCATION

University of North Texas – Denton, TX | Master's Degree in Data Science

Velagapudi Ramakrishna Siddhartha Engineering College – Vijayawada, India
Bachelor's Degree in Electronics & Communication Engineering | Grade: 8.74 / 10 CGPA

Sri Chaitanya Junior College – Vijayawada, India | Intermediate (MPC) | Grade: 970 / 1000

Sri Chaitanya College of Education | High School (SSC) | CGPA: 10.0 / 10.0

EXPERIENCE

- Machine Learning Trainee | iNeuron.ai (Sep 2023 – Nov 2023)

- Worked on supervised and unsupervised learning projects under expert mentorship.

- Junior Data Analyst | Internshala (Jun 2023 – Aug 2023, On-site)

- Analyzed business datasets and created performance dashboards using Power BI and Python.
- Delivered insights that supported decision-making and optimized data-driven processes.

- Data Scientist Intern | SmartKnower (Nov 2022 – May 2023)

- Designed and implemented predictive models using scikit-learn and TensorFlow.
- Automated data preprocessing and model evaluation scripts for real-world datasets.

- Data Analyst Intern | YBI Foundation (Aug 2022 – Oct 2022)

- Performed data cleaning, visualization, and exploratory data analysis (EDA) on large datasets.
- Built and evaluated regression and classification models for business use cases.

ACHIEVEMENTS & LEADERSHIP

• Winner — Smart India Hackathon 2022
• Winner — TECH SRUSHTI 2K21, Shri Vishnu Engineering College
• Winner — Project Innovation Contest, KIIT University
• Organizer — College Fest & Departmental Farewell, VRS Engineering College
• Volunteer — National Service Scheme (2019–2022) conducting awareness and blood donation camps