Satyanarayana Merla

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Objective

Data Engineer specializing in serverless, real-time data pipelines on AWS. Seeking a role to architect end-to-end ETL solutions, optimize data workflows, and drive analytics adoption in cross-functional teams.

Work Experience

Data Engineer Dec 2024 – Present
Vector ML Analytics (Remote, New York, USA)

- Designed & delivered 25+ automated ETL pipelines using AWS Glue & Lambda, reducing time-to-insight by 60
- Orchestrated Kinesis → DynamoDB workflows processing 500K+ events/day for live dashboards.
- Built a Python-based pipeline-generation toolkit, cutting onboarding time for new data sources by 35
- Implemented infrastructure-as-code (Terraform) and CI/CD for data deployments, improving reliability and reproducibility.

Data Scientist Intern Aug 2024 – Nov 2024
Trysol Global Services (Hyderabad, India)

- Engineered CNN-based image-classification models, boosting accuracy by 12
- Collaborated with DevOps to containerize and deploy models via CI/CD pipelines, reducing production bugs by 70
- Conducted exploratory data analysis and feature engineering for customer segmentation, influencing product roadmap.

Data Analyst & ML Freelancer Jan 2024 – Oct 2024
Upwork & Freelancer.com (Remote)

- Launched an NLP-powered CPV code classifier that eliminated 80
- Delivered real-time KPI dashboards using Django & React, enabling dynamic business reporting.
- Integrated third-party APIs (Plaid, RESTful services) for financial data ingestion and visualization.

Python Developer Intern Feb 2023 – May 2023
Pranathi Software Services Pvt. Ltd. (Hyderabad, India)

- Developed backend modules in Python and Django for internal tools, improving data entry efficiency by 30
- Implemented data validation and ETL scripts, ensuring data quality and consistency across databases.
- Collaborated in Agile sprints, presenting demos and integrating stakeholder feedback.

Projects

Ultrasound Anatomy Classifier GitHub

- Developed a CNN pipeline to classify fetal ultrasound images into abdomen, thorax, brain, and femur categories.
- Achieved ¿90

Blood Donation Management System GitHub

- Built a Django-based system with modules for hospitals, companies, and donors; integrated email notifications and secure database storage.
- Streamlined emergency coordination, reducing donor response time by 25

Crop Recommendation System GitHub

- Implemented a KNN-based model recommending crops based on soil nutrients and weather factors, aiding farmers in decision-making.
- Added GUI and speech synthesis for improved accessibility in the field.

Skills

AWS	AWS Glue, Lambda, Kinesis, DynamoDB, CloudFormation/Terraform
Programming	Python (Pandas, NumPy), SQL, Django, FastAPI
Data	ETL design, Real-time streaming, Data modeling, NoSQL
Machine Learning	scikit-learn, TensorFlow, Keras, NLP
DevOps	Docker, Git, CI/CD pipelines
Visualization	React, Plotly, Matplotlib

Education

2020 – 2022 **MCA**, Vignan's Institute of Information Technology, Andhra Pradesh
2017 – 2020 **BSc** in Computer Science, Aditya Degree College, Andhra Pradesh

Certifications

- Data Science – British Airways (Forage), Nov 2024
- TCS MasterCraft™ DataPlus, Jul 2024

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Publications

Merla Satyanarayana, P Pavithra (Oct. 2023). "Paper: CROP RECOMMENDED SYSTEM USING MACHINE LEARNING," in: *Indian Political Science Association* LXXXV,3. URL: https://drive.google.com/file/d/1zZnBYP5cvmLbXuyLGEIiC2MNd0h97RFr/view.