Katharasala Vamshi

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SUMMARY

Recent B.Tech CSE graduate (2025) with hands-on experience in Python full-stack development, data science, and cloud deployment. Skilled in building scalable applications, ML model development, and solving complex problems. Fast learner with adaptability across roles, strong communication skills, and a passion for continuous learning.

EDUCATION

St. Martin's College of Engineering — Hyderabad, India
B.Tech in Computer Science and Engineering — *Graduated 2025*

Govt Polytechnic College — Hyderabad, India
Diploma in Electrical & Electronics Engineering — *2019 – 2022*

INTERNSHIPS

Machine Learning Intern — Apr 2023 – Jun 2023
DHAAPPS Edutech (OPC) Pvt. Ltd., Hyderabad
- Designed and evaluated ML models in Python, improving predictive accuracy by 15%.
- Performed preprocessing, model building, and evaluation of datasets.

Python Full Stack Trainee — Dec 2024 – May 2025
Codegnan IT Solutions, Hyderabad
- Trained on Flask, React, MySQL, and AWS, simulating real-world industry projects.
- Built scalable apps with user authentication, REST APIs, and deployment pipelines.

PROJECTS

Full-Stack E-Commerce Web Application | *Python, Flask, AWS*
- Developed a fully functional e-commerce platform with user authentication, cart, and payments.
- Deployed backend on AWS EC2 with MySQL RDS, reducing query latency by 20%.
- Integrated SMTP notifications and visualized GitHub collaboration data.

Metro Origin-Destination Prediction | *Deep Learning, Django*
- Engineered a Seq2Seq model with Dual Information Transformer for OD prediction.
- Improved prediction accuracy using heterogeneous data and unfinished trips.
- Built backend with Django ORM and frontend using HTML, CSS, JavaScript.

TECHNICAL SKILLS

Programming: Python, Java, C, SQL, MATLAB, R
Web & Frameworks: Flask, React, Node.js, HTML/CSS, JavaScript
Databases: MySQL, SQLite
Cloud & Tools: AWS (EC2, RDS, S3), Git, VS Code, PyCharm
Data Science & ML: Modeling, Simulation, Predictive Analytics, Large Dataset Management
Statistical Analysis: Machine Learning Algorithms, Predictive Modeling, Analytics

SOFT SKILLS

Problem Solving & Critical Thinking
Adaptability & Quick Learning of New Technologies
Flexibility in Roles (Full Stack, Data Science, Cloud)

CERTIFICATIONS

Python Programming — Dhaapps
HackerRank (Intermediate): Problem Solving, Python, SQL
NCC 'C' Certificate (Army Wing) with 'A' Grade