Akkapally Sampath

Full Stack Developer — Python — Flask — React — Angular — Web Development

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Hyderabad, Telangana, India

Career Objective

Aspiring **Full Stack Developer** passionate about building scalable, responsive, and user-centric web applications. Seeking to leverage expertise in **Python, Flask, React, Angular, and MySQL** to develop robust full-stack solutions and contribute to high-performing development teams.

Profile Summary

Detail-oriented and results-driven **Software Engineer** specializing in **Full Stack Web Development**. Experienced in building dynamic frontends with **React.js** and **Angular** and integrating them with **Python Flask backends** and **MySQL databases**. Proficient in designing RESTful APIs, optimizing database queries, and deploying web applications in **Agile environments**. Strong foundation in **OOP, DSA, SDLC**, and collaborative software development.

Technical Skills

Languages	Python, Java, C, JavaScript, HTML, CSS
Frontend / Frameworks	React.js, Angular, Bootstrap, Responsive Web Design
Backend / APIs	Flask, REST APIs, SQLAlchemy
Databases	MySQL, SQLite, Database Design, Query Optimization
Tools / DevOps	Git, Docker, Agile, Unit Testing, CI/CD
Core Concepts	OOP, DSA, SDLC, System Design, Debugging, Version Control

Education

Bachelor of Technology – Artificial Intelligence & Machine Learning (AIML)   2022 – 2026
J.B. Institute of Engineering & Technology (JBIET)
CGPA: 8.64 / 10
Relevant Courses: Web Development, Data Structures, Algorithms, Database Systems, Machine Learning, Software Engineering

Experience

AI Intern – Hexart.in   Jan 2025 – Present

- Developed and optimized **Flask-based APIs** for AI-driven web applications.

- Reduced backend latency by **25%** through optimized database queries and modular design.

- Collaborated with cross-functional teams under **Agile methodology** to enhance system scalability.

- Participated in **debugging, testing, and API documentation**.

Data Science Intern – Coincent   Sep 2023 – Dec 2023

- Processed and visualized datasets exceeding 50,000 records using Python (Pandas, Matplotlib).

- Built SQL-integrated dashboards improving analytics workflow efficiency by **30%**.

- Participated in **Agile sprints** and collaborative reporting cycles.

Key Projects

EcoScan — Smart Waste Classification & NGO Linkage Python, Flask, MySQL

- Built a **full-stack web application** integrating ML-based waste classification (92% accuracy).
- Designed RESTful APIs and optimized MySQL queries, improving page load time by **40%**.
- Developed responsive frontend interfaces using HTML, CSS, and JavaScript.

Portfolio Website React.js, HTML, CSS, JavaScript

- Developed a **responsive, modular React.js frontend** to showcase projects.
- Implemented routing, reusable components, and performance optimizations.

Task Management System Angular, Flask, MySQL

- Developed a **CRUD-based task management platform** with Angular frontend and Flask backend.
- Integrated secure RESTful APIs with MySQL for efficient data management.

House Price Prediction Python, Scikit-learn

- Built a regression model achieving $\mathbf{R^2 = 0.87}$.
- Performed feature engineering, model tuning, and visualization for predictive analytics.

Certifications

- **Deep Learning — NPTEL, IIT Kharagpur (2024)**
- **Programming in Java — NPTEL, IIT Kharagpur (2024)**
- **Data Science with Python — Coincent Internship (2023)**

Achievements & Leadership

- Active member of **AI & Coding Club (JBIET)**; conducted peer coding sessions and hackathons.
- Contributed to open-source and college-level software initiatives promoting peer learning.
- Recognized for excellence in web development and collaborative projects.