Sarayu Pushadapu

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Professional Summary

Aspiring AI & ML Engineer with hands-on experience in Python, backend development, and technical documentation. Strong understanding of machine learning libraries such as NumPy and Matplotlib. Demonstrated leadership through organizing technical events and managing documentation teams. Eager to apply skills in AI-driven solutions and scalable backend systems within collaborative development environments.

Skills

Technical & Language Skills: Python | Java | SQL | HTML | CSS

Frameworks & Libraries: NumPy | Matplotlib | React.js | Node.js

Tools & Platforms: MySQL | Canva

Concepts: Machine Learning | Backend Architecture | API Integration

Soft Skills: Leadership | Problem Solving | Teamwork & Collaboration | Documentation | • Adaptability

Featured Projects

Backend Developer | Smart Itinerary Planner (Capstone Project)   Aug 2024 - Dec 2024

- Developed backend logic and architecture for a smart travel itinerary planner.
- Built secure user authentication flows and optimized data APIs.
- Ensured scalability and clean structure to support dynamic route planning features.

| Retina Segmentation using U-Net – Diabetic Retinopathy Detection   Jan 2025 - April 2025

- Developed a deep learning pipeline using U-Net for segmentation of retinal structures in fundus images.
- Automated detection of blood vessels and lesions, aiding in the early diagnosis of diabetic retinopathy (DR).
- Improved diagnostic accuracy while reducing dependency on manual screening.
- Designed the model for telemedicine and scalable screening, targeting cost-effective diagnostics in remote regions.

Internships & Experience

Documentation Lead | NGC Technical Club, VIT-AP   July 2022 - July 2023

- Led a team to create structured, clear documentation for tech projects and events.
- Co-managed documentation quality control and release timelines.
- Organized and coordinated club events, technical stalls, and student engagement initiatives.

Event Management & Coordination | NGC Technical Club   July 2022 - July 2023

- Managed planning and execution of tech stalls and club activities across multiple events.
- Handled logistics, communications, and participant coordination as the student lead.

Education

B.Tech in Computer Science and Engineering – Specialization in AI & ML |

VIT-AP University, Amaravati, AP   2025

Inter In MPC | Narayana College   2021

SSC | Dr. KKR Gowtham E.M. School   2019

Certifications

- Internship Program in Artificial Intelligence and Machine Learning
- Recognized Student Coordinator for AI/ML-related events and workshops

Key Highlights

- Proficient in Python & AI libraries
- Backend development experience in scalable web apps
- Strong documentation and coordination skills
- Quick learner with hands-on teamwork experience
- Actively exploring deeper applications of machine learning in real-world contexts

Languages

English | Telugu | Hindi