

Vikas Vodnala

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SUMMARY

SMEC Hyderabad graduate with hands-on industry experience in AI/ML engineering and full-stack development at Smarted Innovations and InAmigos Foundation. Skilled in architecting production-level AI algorithms, retrieval-augmented generation (RAG) pipelines, and scalable backend infrastructure for AI applications.

EXPERIENCE

Smarted Innovations

Oct 2025 – Jan 2026

Artificial Intelligence Intern

Bangalore, India

- Designed and developed LLM-powered chatbots using Ollama-hosted open-source models (Llama, Mistral), implementing RAG pipelines with vector databases for domain-specific knowledge retrieval and context-aware responses.
- Engineered RESTful APIs with FastAPI to serve chatbot endpoints and containerized applications with Docker for scalable deployment and consistent environment management.
- Optimized LLM inference performance through model quantization and response streaming, reducing latency for real-time user interactions.

InAmigos Foundation

Jun 2026

Web Developer Intern

Remote

- Developed responsive, user-friendly web interfaces for the NGO's public website, improving usability and accessibility across devices.
- Collaborated with a cross-functional team to translate UI/UX requirements into functional front-end components, strengthening the design-to-code workflow.
- Applied problem-solving and analytical skills to debug and refine interface behavior, contributing to a smoother visitor experience on the site.

EDUCATION

St. Martin's Engineering College, Hyderabad

CGPA: 7.85

Bachelor of Technology in Computer Science and Engineering (AI & ML)

Nov 2022 – May 2026

TS Model School and Junior College, Jagtial

Percentage: 78.8%

Intermediate Education – TSBIE

2020 – 2022

TS Model School and Junior College, Jagtial

Percentage: 93.1%

Secondary School Certificate – TBSE

2020

PROJECTS

Flood Forecasting Using Federated Learning

- Built a federated learning system using TensorFlow Federated with FFNN and CNN2D models trained across distributed water datasets (rainfall, river levels, satellite imagery), achieving 89% prediction accuracy for flood risk assessment.

Flappy Bird Game – Reinforcement Learning

- Designed and trained a reinforcement learning agent to play Flappy Bird autonomously using Deep Q-Networks (DQN), improving decision-making through experience replay and reward-driven learning.

TECHNICAL SKILLS

Languages: Python, Java, HTML, CSS, JavaScript, PHP, SQL

Core CS: Data Structures & Algorithms, OOPs, DBMS

Frameworks & Tools: PyTorch, TensorFlow, Keras, Streamlit, React, FastAPI, Git, Docker, Jenkins CI, REST APIs

Platforms & Technologies: Oracle Cloud, OracleDB, GenAI, LLMs, Gemini API, GitHub, VS Code, Prompt Engineering, Agentic AI, LLM Orchestration

AI/ML Skills: Artificial Intelligence, Machine Learning, Data Management, AI Model Development, AI Model Evaluation, Generative AI

Core Competencies: Technical Documentation, Research Collaboration, Cross-functional Teamwork, Innovation, Analytical Thinking, Collaboration

CERTIFICATIONS

Oracle Cloud Infrastructure Certified AI Foundations Associate , Career Essentials in Generative AI by Microsoft and LinkedIn

POSITIONS OF RESPONSIBILITY

Team Member, Code Hoppers

2023 – 2024

- Participated in technical events and collaborated with the team to strengthen technical insight and engagement across the college.