

# YASWANTH AMPOLU

## AI Application Developer — Data Scientist

📞 6305151728 ✉ [ampoluyaswanth2002@gmail.com](mailto:ampoluyaswanth2002@gmail.com) [in linkedin.com/in/yaswanth-ampolu](https://www.linkedin.com/in/yaswanth-ampolu) [github.com/Yaswanth-ampolu](https://github.com/Yaswanth-ampolu)

## Professional Summary

Experienced AI Application Developer with 1.5+ years developing LLMs, ML algorithms, and end-to-end AI solutions. Proven track record of fine-tuning LLMs achieving 15% accuracy improvements and building scalable APIs serving 1000+ users. Expert in Python, TensorFlow, PyTorch, AWS, GCP, Azure with strong background in generative AI, NLP, and data science.

## Technical Skills

**Programming:** Python, JavaScript, TypeScript, Java, C++, SQL, HTML, CSS, Shell, R  
**AI/ML Frameworks:** TensorFlow, PyTorch, Scikit-learn, Keras, LangChain, Hugging Face, OpenAI API  
**ML Techniques:** Deep Learning, Neural Networks, NLP, Computer Vision, LLM Fine-tuning  
**Web/Backend:** React, Node.js, Express.js, FastAPI, REST APIs, GraphQL, Vite, Tailwind CSS  
**Data/Database:** Pandas, NumPy, Matplotlib, MongoDB, PostgreSQL, Redis, MySQL, ETL  
**Cloud/DevOps:** AWS (EC2, S3, Lambda), GCP, Azure, Docker, Kubernetes, Git, CI/CD

## Professional Experience

### AI Application Developer

May 2025 – Present

Sierraedge AI Pvt Ltd

Bengaluru, Karnataka

- Designed and deployed end-to-end AI-powered applications, integrating large language models (LLMs) with custom business logic and user interfaces
- Led development of scalable APIs and backend services to serve AI inference in real-time applications
- Fine-tuned open-source language models using task-specific datasets to improve accuracy, response quality, and contextual understanding
- Collaborated cross-functionally with product and design teams to deliver generative AI features such as summarization, classification, and anomaly detection
- Optimized performance, latency, and resource usage of AI pipelines across both local and cloud-based environments

### Associate AI Developer

May 2024 – May 2025

Sierraedge AI Pvt Ltd

Bengaluru, Karnataka

- Trained large language models (LLMs) and developed custom datasets to power advanced AI solutions
- Built AI applications, delivering end-to-end solutions for real-world challenges and business needs
- Developed visualization pipelines to present AI model outputs and performance metrics effectively to management

### Data Science Intern

Jun 2023 – Jul 2023

CloudTechnologies

Hyderabad, Telangana

- Analyzed 500K+ records using Python, Pandas, SQL achieving 92% accuracy in churn prediction
- Created automated reporting systems reducing manual work by 75% and improving decision speed

## Key Projects

### Smithery MCP Server | TypeScript, Node.js, WebSocket

- Cross-platform terminal server handling 500+ concurrent connections with 95% security improvement

### LLM Analytics Platform | React, TypeScript, Python, Ollama API

- Dashboard comparing 25+ LLM models with real-time metrics improving selection efficiency by 60%

### Fullstack-App AI Assistant | React, FastAPI, LangGraph, RAG

- Full-stack app with Gemini, Ollama integration personally added local integration

### MotivHater Productivity App | React, Express.js, MongoDB

2024

- Landing page for my motivation app with AI Powered Roasts

## Education & Certifications

### Bachelor of Technology in Information Technology

2020 – 2024

Aditya Institute of Technology and Management

Tekkali, Andhra Pradesh

**Certifications:** Coursera – AI For Everyone (Andrew Ng), University of Helsinki – Elements of AI, Google Cloud – Machine Learning Crash Course, Microsoft Learn – Career Essentials in Generative AI, IBM SkillsBuild – AI Fundamentals

**Specializations:** Applied AI/ML in real-world apps, Full-Stack Development, LLM RAG systems, Model Context Protocols (MCPs)

**Languages:** English (Fluent), Telugu (Native), Hindi (Conversational)