Mahata Lakshmi Ummadi

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SUMMARY

Results-driven Computer Science Engineer specializing in AI, Machine Learning, and Full-Stack Development, with hands-on experience building scalable AI applications, integrating LLMs, and developing robust backend systems. Proven ability to optimize model performance, design production-grade APIs, and work in fast-paced, high-impact environments. Passionate about solving complex problems with clean, efficient code and scalable architectures.

EDUCATION

B.Tech, Computer Science (AI & ML) - Vellore Institute of Technology (09/2021 - Present)
CGPA: 9.48/10 | Ranked 3rd in department
Core Coursework: Data Structures & Algorithms, Machine Learning, Deep Learning, Computer Vision, Operating Systems, Networking, OOP, REST API Development

TECHNICAL SKILLS

Languages: Python, Java, C++, SQL, JavaScript, C, HTML/CSS
Frameworks/Libraries: TensorFlow, PyTorch, Scikit-learn, LangChain, OpenCV, Pandas, NumPy, Spring Boot, Django, Flask
Cloud & Tools: Azure, AWS, Git, Docker, Kubernetes, Postman, VS Code, GitHub Actions
Databases: MySQL, PostgreSQL, MongoDB
Specializations: LLM Integration, AI Model Optimization, REST API Development, Computer Vision, Data Engineering, Agile Methodologies

WORK EXPERIENCE

Software Development Engineer Intern - Walmart Global Tech (09/2022 - Present)
- Designed and integrated Model Context Protocol (MCP) for AI system interoperability and scalability.
- Built a production-grade Order Management System (OMS) chatbot with MCP, improving system efficiency by 20%.
- Collaborated in an Agile environment to deliver scalable backend APIs and optimized integration pipelines.

AI Engineer Intern - Brain-cade Technologies Pvt. Ltd. (09/2023)
- Tested and analyzed Large Language Models with 50+ parameters for game development.
- Implemented LangChain-based chat sequence management, improving response accuracy by 15%.

PROJECTS

Lost Child Detection - (03/2024 - 05/2024)
- Developed a face recognition system trained on 10,000 images achieving 98% accuracy.
- Implemented real-time matching algorithms for law enforcement assistance.

Foot Ulcer Segmentation - (05/2024 - Present)
- Created an ensemble segmentation model (Unet, Unet++, SegNet) achieving 97% accuracy and 0.8 Dice score.

IoT Pattern Analysis - (05/2023 - 07/2023)
- Used ESP32 + MPU9250 sensors to collect and visualize data via Django-based dashboards.

- Achieved 80% accuracy in detecting motion patterns.

RESEARCH

Comparative Analysis of Models on Stock Market Price - (10/2023 - 07/2024)
- Benchmarked 5 ML/DL models for stock prediction across 80 top stocks, achieving 95% accuracy.

ACHIEVEMENTS

- Meritorious Award: 3rd Rank in CSE AI & ML, VIT.
- Stock Hackathon: 2nd Prize - LSTM-based stock prediction (87% accuracy).
- Open Source: Developed ML-powered medical diagnostics platform (90%+ accuracy) for 3 major diseases.

CERTIFICATIONS

- Microsoft Certified: Azure Administrator Associate
- Artificial Intelligence Foundations - SkillsUp
- Programming Foundations (HTML/CSS) - Coursera