

Bhavani Shankar Sasank Mukkamala

209-630-7477 | sasankmukkamala2303@gmail.com | linkedin.com/in/sasank-mukkamala | sasankmukkamala.com

SUMMARY

AI/ML Engineer with hands-on experience in LLM fine-tuning, RLHF, and deploying scalable NLP solutions, focused on building reliable, real-world AI systems with minimal hallucination.

EDUCATION

California State University, Los Angeles <i>Master of Science in Computer Science (GPA: 3.94 / 4.00) (Dean's List – Top 10%)</i>	May 2025 Los Angeles, CA
Gandhi Institute of Technology and Management, Hyderabad, India <i>Bachelor of Technology in Computer Science and Engineering (GPA: 3.97 / 4.00)</i>	June 2023 Hyderabad, India





WORK EXPERIENCE

California State University, Los Angeles, CA <i>Graduate Student Assistant (Assistant Lab Consultant)</i>	Oct 2023 – Present
<ul style="list-style-type: none">Enhanced lab efficiency by reducing downtime 30% through swift resolution of 100+ hardware, software, and network issues.Improved user satisfaction (95% rating) by managing 50+ monthly ServiceNow tickets, providing timely and effective solutions.Supported IT services for 500+ users, troubleshooting issues related to campus applications like Zoom, Teams, and Canvas.	
Phoenix Global, Hyderabad, India <i>Machine Learning Engineer Intern</i>	Apr 2022 – July 2022
<ul style="list-style-type: none">Fine-tuned NLP models for sentiment analysis, boosting accuracy by 25% using Scikit-Learn and TensorFlow.Designed real-time Twitter sentiment analysis pipelines, improving data processing efficiency by 30%.Optimized deep learning-based embeddings, reducing training time by 15% for large-scale data.	
Defence Research and Development Organisation, Hyderabad, India <i>Software Developer Intern</i>	May 2021 – Aug 2021
<ul style="list-style-type: none">Engineered Python-based middleware for data processing, cutting conversion time by 60%.Developed a GUI-driven ML-powered data validation tool, reducing manual effort by 60%.Conducted rigorous testing, achieving 100% accuracy in data conversion and handling datasets with over 1 million records.	

TECHNICAL SKILLS

Machine Learning & AI: LLM Fine-Tuning, Reinforcement Learning (RLHF), Deep Learning, NLP, Multi-Modal Models
Frameworks & Tools: PyTorch, TensorFlow, Transformers, Scikit-Learn, NumPy, Pandas, OpenCV
Deployment & Optimization: Model Deployment, CUDA, Docker, AWS (EC2, S3), Google Cloud Platform
Programming Languages: Python, Java, C++, JavaScript, TypeScript, Dart
Database & Backend: MongoDB, PostgreSQL, MySQL, Express.js
Tools: Git, Jira, ServiceNow, LaTeX

PROJECTS

AI Medical Chatbot <i>LangChain, Hugging Face, Streamlit, FAISS</i>  github.com	Nov 2024
<ul style="list-style-type: none">Developed an AI-driven medical chatbot, leveraging LLM fine-tuning and RLHF techniques to improve response reliability.Implemented vectorized search for EHR documents, reducing query response time by 50%.Deployed a real-time chatbot with optimized embeddings to ensure minimal hallucination in generated content.	
NeuralArt AI <i>React.js, Node.js, Express.js, MongoDB, Hugging Face API</i>  github.com	Mar 2024
<ul style="list-style-type: none">Developed a full-stack web application enabling users to generate and share AI-powered art using the Stable Diffusion model.Implemented secure user authentication with JWT and managed image storage with Cloudinary.Deployed the application on Vercel and Render, ensuring a seamless user experience across devices.	
Facial Emotion Recognition System <i>Python, TensorFlow, OpenCV, Keras</i>  github.com	Jun 2024
<ul style="list-style-type: none">Built a real-time CNN-based facial emotion detection system, achieving 85% accuracy on FER-2013.Integrated OpenCV and TensorFlow for multi-modal data processing, enabling 15 FPS real-time detection.	
Cryptocurrency Price Predictor <i>Python, Flask, TensorFlow/Keras, yfinance</i>  github.com	Mar 2024
<ul style="list-style-type: none">Designed an LSTM-based predictive model, achieving 80% accuracy on financial time-series data.Optimized data pipelines with Scikit-Learn, enhancing model training efficiency by 25%.	

CERTIFICATIONS

- | | |
|--|--|
| • Programming in Python , META, 2024 | • Neural Networks and Deep Learning , DeepLearning.AI, 2022 |
| • Machine Learning , University of Washington, 2024 | • MongoDB Node.js Developer Path , MongoDB, 2023 |