

MOREDDY SANKEERTH REDDY

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🌐 [MSR2201](#)

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SUMMARY

Results-driven AI Engineer with a strong foundation in machine learning, deep learning, and artificial intelligence, backed by an M.Tech in Integrated Software Engineering from Vellore Institute of Technology. Proficient in developing end-to-end AI solutions, including data pre-processing, model development, and production deployment, using Python, LangChain, TensorFlow, and PyTorch. Demonstrated expertise in building advanced AI systems, including Retrieval-Augmented Generation (RAG) workflows, fine-tuning Large Language Models (LLMs), and optimizing model performance for real-world applications. Proven ability to implement innovative solutions through collaborative teamwork and a passion to remain at the forefront of AI advancements. Committed to leveraging technical and analytical skills to solve complex challenges in dynamic IT/ITES environments.

EDUCATION

Vellore Institute of technology

06 2019 – 06 2024

Mtech Integrated Software engineering - 8.68

Chennai, India

TECHNICAL SKILLS

Programming Languages: Java , Python , SQL, R

Web technologies: HTML5 , CSS3

Operating Systems: Windows , LINUX

Technical Skills: Software Development Life Cycle , Machine learning(ML) , Artificial Intelligence(AI), Data Analytics , Prompt engineering , Deep learning frameworks , Pytorch , HuggingFace Hub, Scikit-Learn , MLX

Developer Tools: VS Code, Colab, IntelliJ Idea Ultimate, Netbeans

Cloud Technologies: AWS, Azure , GitHub , Git

EXPERIENCE

AI Research Intern

08 2024 – Present

Five Minutes

Location

- Developed and fine-tuned Large Language Models (LLMs) using cutting-edge AI research techniques and frameworks.
- Collaborated on various AI projects, integrating advanced natural language processing capabilities into real-world applications.
- Enhanced model performance through optimization techniques and continuous evaluation with domain-specific datasets.
- Contributed to the deployment and scaling of LLM-based solutions, improving user interaction and providing innovative features for clients.

PROJECTS

Advanced RAG System | Natural Language Processing

03 2024

- Engineered a comprehensive RAG system with **Contextual**, **Graph-based**, and **Agentic** variants for enhanced document retrieval.
- Implemented intelligent web crawling and PDF processing with **LangChain** and **FAISS** vector storage.
- Developed an interactive **Streamlit** interface achieving **90%** query accuracy using hybrid embedding models.

LLM Finetuning Pipeline | MLX and Deep Learning

02 2024

- Developed an automated MLX-based finetuning system using **LoRA** and **PEFT** techniques for efficient model adaptation.
- Created seamless conversion pipeline from HuggingFace models to **GGUF** format with **95%** automation.
- Implemented robust data processing with CSV to JSONL conversion and automated train-validation splits.

Cyclone Track Prediction | Deep learning and Data analytics

03 2024

- Utilized Python to create an Automatic Cyclone Track Prediction System.
- Enhanced prediction accuracy with Hybrid **CNN-LSTM** and **CNN-GRU** techniques.
- Achieved **95%** accuracy in tracking cyclones, surpassing conventional models.

Cyclone Eye Detection | Computer vision and YOLO

12 2023

- Implemented advanced computer vision techniques using the YOLO object detection model.
- Innovatively expanded the dataset through a novel computer vision method.
- Achieved an impressive **89%** precision in detecting cyclone eyes.

EXTRACURRICULAR

National Service Scheme

08 2020 – 12 2022

Head

Chennai

- Led an 8-member team in organizing and conducting online and offline events.
- Facilitated interviews with prominent national figures to inspire students.
- Successfully executed multiple events under my guidance.

CONFERENCE

Object Translation based Image Augmentation enabled Cyclone Eye Detection System for Tropical Cyclones in India - uPCOMING 12 2024