

M MADANA MOHANA REDDY

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PROFESSIONAL SUMMARY

AI/ML undergraduate with hands-on experience in deep learning, computer vision, and Generative AI systems. Built end-to-end intelligent applications including a deepfake detection system and retrieval-augmented generation (RAG) pipelines. Strong in Python, machine learning, and LLM-based applications, with a focus on developing scalable, real-world AI solutions. Seeking AI/ML internship or entry-level roles to apply and expand practical expertise.

TECHNICAL SKILLS

Programming: Python, SQL
Machine Learning & AI: Supervised Learning, Deep Learning, NLP, Computer Vision, Model Evaluation
Generative AI: LLMs, Prompt Engineering, Retrieval-Augmented Generation (RAG), Embeddings, Vector Databases
Libraries & Frameworks: Pandas, NumPy, Matplotlib, Scikit-learn, OpenCV, LangChain, SentenceTransformers
Tools & Platforms: Git, Jupyter Notebook, Google Colab, VS Code, Excel
Web & Deployment: HTML, CSS, FastAPI
Core Concepts: Feature Engineering, Data Preprocessing, Model Optimization, API Development

PROJECTS

Deepfake Video Detection System

- Developed a deep learning-based system to detect manipulated videos using convolutional neural networks and temporal modeling techniques
- Processed video datasets using face extraction, frame sampling, and normalization to improve data quality
- Evaluated model performance using precision, recall, and F1-score, achieving strong detection accuracy
- Optimized preprocessing pipelines and model parameters to enhance classification performance
- Technologies: Python, OpenCV, NumPy, Scikit-learn

Enterprise Document Intelligence System (RAG-based AI Assistant)

- Built a retrieval-augmented generation system to enable intelligent question-answering over document collections
- Implemented document ingestion, chunking, embedding generation, and semantic retrieval using vector databases
- Generated context-aware responses using LLMs with source attribution for improved reliability
- Designed and exposed REST APIs using FastAPI for scalable and real-time inference
- Technologies: Python, LangChain, FAISS, SentenceTransformers, FastAPI

EDUCATION

B.Tech – Computer Science Engineering (AI & ML)

Siddharth Institute of Engineering and Technology, Puttur | JNTUA Anantapur | 2026 CGPA: 8.37 / 10

Intermediate (Class XII)

Narayana Junior College, Kadapa | Board of Intermediate Education, A.P | 2022 Percentage: 91.5%

SSC (Class X)

Pavan Concept E.M High School, Kadapa | Board of Secondary Education, A.P | 2020 Percentage: 96.5%

CERTIFICATIONS & LEARNING

- Machine Learning and Data Science coursework
- Generative AI and LLM application development

ADDITIONAL INFORMATION

- Strong analytical thinking and problem-solving skills
- Quick learner with adaptability to new technologies
- Languages: Telugu, English