

MANDULA ANIRUDH

malipeddi street, Srikakulam, Andhra Pradesh-532403

📞 938-101-1214

✉ anirudhmandula718@gmail.com

🌐 [linkedin.com/in/anirudh_mandula](https://www.linkedin.com/in/anirudh_mandula)

Professional Summary

Aspiring AI/ML Engineer with a strong foundation in Python programming, Object-Oriented Programming, SQL, Database Management Systems, and Machine Learning. Experienced in developing academic projects involving deep learning, predictive modeling, data preprocessing, and data analysis using TensorFlow, Keras, Pandas, NumPy, and Matplotlib. Passionate about building AI-driven solutions, solving analytical problems, and continuously learning modern software development and emerging technologies while contributing effectively in collaborative environments.

Education

Mohanbabu University

Bachelor of Technology in Electronics and Communication (CGPA - 8.34/10)

Sep. 2022 – May 2026

Tirupati, Andhra Pradesh

MR Junior College

12th Grade - 83.6

May. 2020 – May 2022

Visakhapatnam, Andhra Pradesh

Keshava Reddy School

10th Grade - 96

June. 2019 – March 2020

Etcherrla, Andhra Pradesh

Technical Skills

- **Programming Languages:** Python, SQL
- **Machine Learning:** Supervised learning, Classification, Regression, Feature Engineering, Model Evaluation, Predictive Models, Time-Series Analysis, ARIMA, Hyperparameter Tuning
- **Deep Learning:** CNN, RNN, LSTM, Tensorflow, Keras, Scikit-learn
- **Computer Vision:** OpenCV, Image Classification
- **Data Analysis & visualization:** Numpy, Pandas, Matplotlib
- **Tools & Platforms:** VS Code, Jupiter Notebook, Kaggle, Git and GitHub
- **Core Concepts:** Data Structures, Object-Oriented Programming, DBMS, Statistics for Machine Learning, Time-Series Analysis.

Projects

Enterprise Knowledge Assistant | Python, LangChain, Hugging, Face, FAISS, RAG

Ongoing

- Developing an AI-powered Enterprise Knowledge Assistant using the Retrieval-Augmented Generation (RAG) architecture for enterprise document question answering.
- Built a document processing pipeline to load PDF documents, perform semantic text chunking, generate embeddings using Hugging Face models, and create a FAISS vector index for efficient semantic search.
- Designed a modular architecture with separate components for document loading, preprocessing, embedding generation, vector storage, and retrieval to improve scalability and maintainability.
- Building context-aware question answering by integrating semantic retrieval with Large Language Models (LLMs).

Stock Price Prediction using LSTM | Python, Deep Learning Learning, Tensorflow, Keras, Matplotlib

May 2026

- Developed a deep learning-based stock price forecasting system using stacked LSTM networks on historical stock market data.
- Performed data preprocessing, normalization, train-test splitting, and sequence generation for time-series modeling.
- Built and trained stacked LSTM models to predict future stock closing prices from historical trends.
- Evaluated model performance using RMSE and visualized predicted versus actual prices using Matplotlib.

AI-Based Crop Disease Detection and Smart Irrigation System | Python, CNN, Numpy, Pandas

February 2026

- Developed a Python-based image classification application using CNN for automated crop disease detection.
- Built preprocessing and model training pipelines using TensorFlow, Keras, NumPy, Pandas, and OpenCV.
- Applied data augmentation and regularization techniques to improve model performance.
- Designed an intelligent irrigation recommendation module using environmental sensor data.
- Performed model evaluation and prediction analysis for AI-based agricultural applications.

Certifications

- Machine Learning - Codetech IT Solutions
- Python for Data Science – Intellipaat
- Database Management System – Coursera
- Structured Query Language (SQL) – Intellipaat

Extracurricular Activities

- Active participant in college cultural events and dance programs.
- Demonstrated teamwork, leadership, communication, confidence, and collaboration skills through group performances and campus activities.