

MALLARI MADHU

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Education

VIT Bhopal University , Bhopal, MP <i>M.Tech in Artificial Intelligence and Data Science</i> CGPA: 8.0/10	2024 – 2026
Vellore Institute of Technology , Vellore, TN <i>B.Tech in Civil Engineering</i> CGPA: 8.11/10	2020 – 2024
Narayana Junior College , Kurnool, AP <i>12th Standard – Board of Intermediate Education</i> CGPA: 9.48/10	2017 – 2019

Projects

Pixel Art Generator with DCGAN

Built a DCGAN using TensorFlow/Keras to generate 16×16 pixel game sprites. Implemented custom training visualizations to compare real vs. generated images and track model performance.

Agentic AI Trading Agent using Deep Q-Learning

Designed and trained a Deep Q-Network in a custom environment for stock trading. Incorporated agentic AI principles with state-action-reward design to optimize portfolio growth using real market data.

Warren Buffett Portfolio Analytics Dashboard

Scraped Warren Buffett's Dataroma holdings using BeautifulSoup and structured the data into JSON/CSV. Built an interactive Streamlit dashboard with sector allocation, performance trends, correlation heatmaps, and diversification metrics.

Reddit Sneaker Sentiment Dashboard

Created a Streamlit dashboard for sentiment analysis on Reddit sneaker discussions. Applied VADER for polarity scoring and visualized trends using word clouds to capture brand perception and consumer sentiment.

YOLOv8 Object Detection on BDD100K

Trained YOLOv8 on a subset of the BDD100K dataset to detect road elements like cars and pedestrians. Converted annotations to YOLO format and evaluated model accuracy in simulated driving scenarios.

Gmail Email Summarizer

Developed a summarization tool using the BART-CNN Transformer and Gmail API. Deployed via Streamlit to generate daily email digests, improving email management and reducing reading time.

Skills

Programming: Python

Libraries: Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, TensorFlow, Keras, Hugging Face Transformers

NLP: NLTK, spaCy, VADER, OpenAI APIs

Tools: Git, Streamlit, Jupyter, VS Code

Others: Web Scraping, Sentiment Analysis, Data Visualization, REST APIs

Languages

English (Fluent), Hindi (Fluent), Kannada (Native), Telugu (Fluent), Tamil (Conversational)