

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

Agentic AI Trading Agent using Deep Q-Learning

Developed an Agentic AI-based trading bot with a custom environment, state-action design, and reward logic. Trained a Deep Q-Network on real stock data to make and evaluate trade decisions for portfolio growth.

Warren Buffett Portfolio Analytics Dashboard

Developed a data pipeline using Python and BeautifulSoup to scrape Warren Buffett's Dataroma holdings; structured the data into JSON/CSV formats for analysis. Built a Streamlit dashboard with interactive charts including sector allocation, performance trends, correlation heatmaps, and diversification metrics to uncover investment patterns.

Reddit Sneaker Sentiment Dashboard

Developed an interactive Streamlit dashboard for product-focused sentiment analysis by mining Reddit posts; used VADER and word clouds to track consumer opinions, brand perception, and emerging trends in sneaker products.

YOLOv8 Object Detection on BDD100K Subset

Trained a YOLOv8 model on a curated subset of the BDD100K dataset to detect road objects such as cars, pedestrians, and traffic signs. Converted original JSON annotations to YOLO-compatible TXT format and evaluated detection performance in realistic autonomous driving scenarios.

Gmail Email Summarizer

Built an automated summarization tool using the BART-CNN Transformer model and Gmail API; deployed locally via Streamlit to deliver daily email digests and reduce reading time **Social Media**

Insight Analyzer using NLP

Analyzed social media data using NLP (spaCy, VADER) to extract trends and sentiments for brand campaigns.

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)