MALLARI MADHU

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Education

VIT Bhopal University, Bhopal, MP   2024 – 2026
M.Tech in Artificial Intelligence and Data Science
CGPA: 7.92/10

Vellore Institute of Technology, Vellore, TN   2020 – 2024
B.Tech in Civil Engineering
CGPA: 8.11/10

Narayana Junior College, Kurnool, AP   2017 – 2019
12th Standard – Board of Intermediate Education
CGPA: 9.48/10

Projects

Pixel Art Generator with DCGAN   May 2025
Built a DCGAN using TensorFlow/Keras to generate 16×16 pixel game sprites. Achieved close alignment of pixel statistics (mean 0.38, std 0.72) between real and generated images. Implemented custom training visualizations to compare distributions and track model performance.

Agentic AI Trading Agent using Deep Q-Learning   January 2025
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.

Multi-Agents System with CrewAI   August 2025
Built a multi-agent AI system with CrewAI and Python, leveraging a local Mistral-7B model to perform market research and content strategy. Designed custom agent roles and workflows to create a scalable pipeline simulating real-world analytics.

Warren Buffett Portfolio Analytics Dashboard   December 2024
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   April 2025
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 Tooth Detection (OralVis-Healthcare)   August 2025
Trained YOLOv8 on dental panoramic X-rays (32 FDI tooth classes) with label rectification and dataset splits.Fine-tuned pretrained weights and achieved 91 Precision, 89 Recall, mAP@0.5 = 0.92 and mAP @0.5:0.95 = 0.88.

Skills

Programming: Python, SQL
NLP: NLTK, spaCy, VADER, OpenAI APIs
Tools/Frameworks: Beautifulsoup,MatplotLib,Tableau,rest APIs, Git, Streamlit, Jupyter, VS Code
Certifications: Fundamentals of Agents - Hugging Face Agents Course, Fundementals of The LLM Course - Hugging Face

Languages

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