Vansh Dugar

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Education

Vellore Institute of Technology(VIT) — Bhopal, IN
Integrated Master of Technology in Artificial Intelligence, CGPA- 8.72 — *July 2021 – May 2026*

Nandha Central City School — Erode, IN
Class 12th,CBSE - 93.8% — *May 2021*

Nandha Central City School — Erode, IN
Class 10th,CBSE - 88% — *May 2019*

Projects

Multi-Agent Article Generator | *Python, CrewAI, OpenAI, LLM* — May 2025

- Built a multi-agent AI system using CrewAI to autonomously research and generate articles with distinct agent roles (Researcher, Writer, Editor).
- Integrated real-time web search via langchain_community tools, enabling context-rich content creation using LLMs.
- Designed and orchestrated agent workflows with distinct roles and goals, applying AI task delegation, agent tooling, and context-aware memory.

Viskk (LLM Fine-tuning) | *Python, Deep Learning, OpenAI,LLM* — October 2024

- Developing LLM-based applications to enhance the user experience and streamline the efficiency of email applications
- Building a mail generation system using Meta's LLaMA model to automate and optimize email composition and responses

Khoya Paya (Face Identification) | *Python, Deep Learning, Computer Vision* — May 2024

- Implemented a face recognition system using advanced image processing and object detection techniques to match and identify faces from a pre-stored image database
- Utilized a Computer Vision library to calculate and evaluate confidence scores for matched faces
- Designed the application to leverage Aadhaar card data, enabling government officials to assist lost individuals with memory issues or missing children in reuniting with their families

CNN-Based Fruit Quality Detection | *Python, Deep Learning, Neural Networks, Dataframes* — August 2023

- Trained a Convolutional Network to assess and determine the quality of fruit based on its image using EfficientNet model to train and test on 2D Images with testing Accuracy of 98%
- Visualized the confusion matrix to present the results and performance metrics of the model

Experience

Marketing Tech Intern — November 2024 – February 2025
Xoxoday by GIIFT — *Bengaluru, IN*

- Developed AI assistant (CS Bot) using Copilot Studio and Azure AI Studio with NLP and LLM capabilities, enabling query resolution for customers and HR, reducing agent workload by 80%.
- Improved operational efficiency through custom copilot solutions and free-flow intent detection

Web Development Intern — January 2023 – March 2023
Humans of Chhattisgarh — *Chhattisgarh, IN (Remote)*

- Collaborated with web developers to design and launch a website showcasing organizational work, blog posts, and engagement features.

Technical Skills

Languages: Python, SQL
Developer Tools: Git, Google Cloud Platform, VS Code, Google Colab
Frameworks: CrewAI, Scikit-learn, Pandas, Tensorflow, NumPy

Co-Curricular Activities

- Completed a hands-on certification course on Generative AI with Diffusion Models.
- Presented "Enhancing Power Transformer Reliability with Machine Learning-Based Fault Detection and Data Analysis" (DOI:10.1007/978-3-031-80839-5_2) at IETCIT 2024.
- Led content creation for social media at Omdena VIT Bhopal, enhancing team collaboration and brand visibility,