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EDUCATION

- B.Tech CSE (Artificial Intelligence & Machine Learning) | VIT Bhopal University, Bhopal | 2022 - Present | CGPA: 7.77

TECHNICAL SKILLS

- Languages: Python, C++, Java
- AI & Machine Learning: Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, TensorFlow, Keras, OpenCV, MobileNet, EfficientNet-B7, LSTM, NLP, OCR (Tesseract), pdf2image
- Cloud & Databases: MySQL
- DevOps & Tools: Git, GitHub, Docker
- App Deployment: AWS, GCP, Azure, Streamlit (local & cloud), Raspberry Pi (Edge Deployment)
- CS Fundamentals: Data Structures & Algorithms, OOP, DBMS, Operating Systems, Computer Networks

PROJECTS

Authenticity.AI – AI Image Authenticity Detector [\[Live Demo\]](#) | [\(GitHub\)](#)

June 2025

Built and deployed a full-stack deep learning application to determine if a digital image is a real photograph or a synthetic, AI-generated artifact.

- Engineered and trained a Convolutional Neural Network (CNN) using Transfer Learning with MobileNetV2, achieving high accuracy on a challenging dataset of modern, high-fidelity AI images.
- Developed and deployed a real-time, interactive web application using Streamlit, featuring a dynamic video background and a user-friendly "glassmorphism" interface for a professional user experience
- Implemented versatile file handling, allowing users to upload and analyze standard images (.jpg, .png) as well as .pdf documents by automatically extracting and processing embedded images.

Technologies: Python, TensorFlow, Keras, Streamlit, MobileNetV2, NumPy, Pillow, PyMuPDF, Git, Git LFS.

Neuro Doc – Intelligent OCR Document Reader (Github)

May 2025

Engineered a robust document processing tool that digitizes content from PDFs and images using a custom OCR pipeline, making unstructured text searchable and usable.

- Leveraged OpenCV for image pre-processing techniques (e.g., binarization, noise reduction) to enhance text clarity and significantly improve OCR accuracy from various sources.
- Integrated the Tesseract OCR engine with pdf2image to create a versatile pipeline capable of handling both multi-page scanned PDFs and common image formats.
- Architected a structured data output system using custom Python classes, organizing extracted content page-by-page to preserve the document's original layout and enable further analysis.
- Constructed an interactive front-end using Streamlit, providing a seamless user experience for uploading documents and viewing parsed text in real-time.

Technologies: Python, OpenCV, pytesseract, pdf2image, NumPy, Streamlit

PlantDoc.AI – Plant Disease Detection System (Github)

April 2024

Engineered an end-to-end computer vision system to detect plant diseases, deploying the solution for both web and real-time edge computing.

- Designed and implemented a custom VGG-style Convolutional Neural Network (CNN) from scratch using TensorFlow and Keras.
- Trained the model on the PlantVillage dataset, implementing data augmentation and normalization to achieve high classification accuracy.
- Deployed the final model on a Raspberry Pi for real-time, on-field leaf image analysis (Edge AI), demonstrating practical application of the model.
- Developed a user-friendly Streamlit interface for desktop use with interactive predictions and visualizations.
- Technologies: Python, TensorFlow, Keras, OpenCV, Raspberry Pi, Streamlit, NumPy, Matplotlib

ACHIEVEMENTS

- Zelestra X AWS ML Ascend Challenge 2025: Achieved a global rank of 19th out of 1500+ active teams by developing high-performing ensemble models for solar energy loss prediction.
- Smart India Hackathon 2023: Selected as a Finalist in the university-wide Internal Hackathon, recognized for proposing innovative solutions to real-world challenges.

CERTIFICATES

- GEN AI Using IBM Watsonx – **IBM** | Apr 2025
- Applied Machine Learning in Python – **University of Michigan & Coursera** | Dec 2023
- Introduction to C++ – **Coding Ninjas** | Nov 2023
- Python Essentials – **Vityarthi** | May 2023