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EDUCATION

University of Maryland, College Park

Master of Science in Applied Machine Learning ; GPA: 4.0/ 4.0

Expected: May 2027
College Park, Maryland

Vishwakarma University

B.Tech in Artificial Intelligence and Data Science ; GPA: 3.75 / 4

May 2024
Pune, India

- Featured in Times of India for Developing real time fall detection system
- AI/ML Core Team Member, Google Developer Student Club

TECHNICAL SKILLS

Machine Learning: Sci-kit Learn, Keras, Tensorflow, PyTorch, HuggingFace, LLMs

DevOps Tools: Git, Azure, AWS, Flask, Docker.

Data Science and Visualization: Numpy, Pandas, Matplotlib, Seaborn.

Programming Languages: Python, MySQL, HTML, PHP.

Other: Deep Learning, Medical Imaging, Image Processing, OpenCV, NLP, Gen AI, Big Data Analytics

PROFESSIONAL EXPERIENCE

AI Engineer

Universidad María Auxiliadora

Apr 2024 – Jun 2025
Lima, Peru.

- Developed an AI-powered virtual lab simulator integrated with a student feedback system to give insights by analyzing student responses. Increasing student involvement by 34%.
- Built a student's attentiveness Monitoring system for online classes using computer vision technology. It includes face detection, face recognition, and facial landmark analysis. Helped to improve student assessment.

Student Researcher Intern

Energy Research Institute @ NTU

Jan 2024 – Mar 2024
Singapore.

- Implemented GAN model to generate realistic road scenarios to enhance robustness of the perception system of autonomous vehicles.

AI Engineer Intern

Yodda Elder Care Technologies Pvt Limited.

Jul 2023 – Dec 2023
Pune, India.

- Developed a OpenCV based fall-detection system with 95% accuracy for elderly people using pose estimation and pose-classification classification. Integrated features like alarm triggering and snapshot delivery, enhancing the system's effectiveness during emergencies.

Student Researcher

VU Research Centre of Excellence for Health Informatics

Jun 2022 – Aug 2022
Pune, India.

- Developed a CNN model for classifying brain tumors MRI images, achieving 96% accuracy with minimal computational power.

PROJECTS

1. Multi-Model Classification System for Dyslexia Detection Using Handwritten Digit Data.

- Built CNN classifiers to detect dyslexia with 90.52% accuracy using handwritten digit image data with a multi-model approach. This approach helped to boost accuracy. Results are saved for further analysis, enabling robust and reliable detection. This approach supports early diagnosis, for the betterment of affected people. (*TensorFlow / Keras / Machine Learning / Ensemble Learning / Data Preprocessing*)

2. LLM-Meeting-Minutes-Generation. ([Github Link](#))

- Implemented an end-to-end LLM pipeline using Google Gemini for transcription and a Llama model via Hugging Face Router to generate clean, shareable meeting minutes automatically. (*Python / HuggingFace / Gradio / ML / Genai / LLM*)

3. LLM-AI-Website-Summarizer. ([Github Link](#))

- Built an AI website summarizer that extracts webpage text from a URL and generates concise summaries using an LLM, with support for both OpenAI and local Ollama models. Packaged as an easy-to-run notebook workflow with simple setup and environment-based key management.

PUBLICATIONS

1. IIETA: Efficient Segmentation Approach for the Traceability of Breast Cancer Tissues to Improve Diagnostic Accuracy in Ultrasound Images.

- Advanced preprocessing with multiple segmentation models analyzes breast CT images, enhancing quality and tumor delineation. Dice and IoU evaluations show strong accuracy of 96.73%, enabling early diagnosis and informed treatment planning. ([link](#))

2. IEEE ICCIT' 2025: Collating Random Forest Classifier and Artificial Neural Networks for the Risk Detection of Maternal Health. ([Link](#))

- Compared ANN and Random Forests models for maternal health risk classification using clinical features; addressed class imbalance via class weights/dropout; Random Forest achieved 85.71% accuracy.

3. IEEE IC3I '2022: An Efficient Deep Learning based Approach for the Detection of Brain Tumors ([Link](#))

- Developed CNN model for classifying brain tumors MRI images, achieving 96% accuracy with minimal computational power.