PAYOSHNEE JOSHI

Email: payoshneejoshi@gmail.com
Phone: +91 7020946669
Github: https://github.com/Payoshnee
LinkedIn: http://www.linkedin.com/in/payoshneejoshi

EDUCATION

Bachelor of Computer Science and Engineerin **Sep 2023 - June 2027**
Vellore Institute of Technology, Bhopal
- Specialization in cloud computing and automation
- Current CGPA : 8.98/10

SKILLS

C++,Neural Network, Deep Learning, TensorFlow, Numpy, OpenCV

CERTIFICATION

- Applied Machine Learning in Python (University of Michigan): Coursera (Dec 2024)
- Python Certificate: HackerRank (Dec 2023)

ACADEMIC PROJECTS

Apple Leaf Disease Detection Model **Feb 2025 - March 2025**
- Description: Worked on a deep learning-based classification model for apple leaf disease detection using a custom dataset of 2000 images. The approach incorporates CLAHE for contrast enhancement, data augmentation, and EfficientNetB0 with transfer learning, achieving a final accuracy of 98.23%.
- Technology: Python, TensorFlow, Keras, EfficientNetB0, OpenCV, NumPy, Matplotlib, Google Colab
- Impact: An accurate deep learning model was developed for early apple leaf disease detection, supporting precision agriculture through the use of preprocessing and transfer learning.
- Research Publication: Authored a paper titled “Enhanced Apple Leaf Disease Classification Using EfficientNetB0 with Green Channel Extraction and CLAHE-Based Preprocessing”, awarded with best paper presenter at the 2nd International Conference on Data-Driven AI (ICDDA-2025), organized by Assam Kaziranga University, India. and in review for publication in journal under Taylor and Francis Publisher

Breast Cancer Classification Using Deep Learning on Histopathology Images **April 2025- May 2025**
- Description: Worked on a deep learning-based classification model for breast cancer diagnosis using mammogram images from the KAU-BCMD dataset. The approach incorporates HTF filter ACO-based EWT for image processing, Explainable XAI AI (SHAPE), and achieves a final accuracy of 98%.
- Technology: Python, TensorFlow/Keras, OpenCV, scikit-learn,SHAPE.
- Impact: Enhancing automated breast cancer diagnosis with 98% accuracy, aiding early detection and reducing diagnostic errors.

TAMOHAR (Image Enhancement Model for Lunar Craters) (SIH Project)
- -Description: Developed a model to enhance low light images of Permanently Shadowed Regions of Lunar craters from Chandrayaan-2’s OHRC data. Focused on illumination correction, denoising, and crater cropping.
- -Technology: Python, TensorFlow, OpenCV,PyTorch,NumPy.
- Impact: Illumination correction, noise reduction, and crater cropping.

ADDITIONAL INFORMATION

- **Virtual Tech Programs:** Attended Amazon WOW virtual programs, gaining insights into industry trends, technical skills, and career growth, which enhanced my knowledge and professional networking
- Active student member of Rewriting the Code, a global organization empowering woman in tech through mentorship, networking, and career development opportunities. (Feb 25 – present)
- **Languages:** English, Hindi ,Marathi ,Japanese.
- **Hackathons :** SIH 2024 -Achieving final screening.