

Prasidhi Nandwani

Gmail | LinkedIn | Github

Education

Integrated M.Tech in Artificial Intelligence , VIT Bhopal University, Bhopal, MP	2022 – 2027
• CGPA: 8.80/10	
Class XII , St. Joseph's Convent Hr. Sec. School, Itarsi, MP	2020 – 2021
• Percentage: 87.8%	
Class X , St. Joseph's Convent Hr. Sec. School, Itarsi, MP	2018 – 2019
• Percentage: 89.8%	

Technical Skills & Tools

- Python, Java, Scikit-learn, TensorFlow, PyTorch, OpenCV, YOLO, Pandas, NumPy, Keras, Computer Vision, Deep Learning, Image Classification, Object Detection, Data Visualization & Reporting.

Experience & Publications

- **Lightweight CNN with SE Attention for Brain Tumor Classification** 2025 (Under Review)
 - Implemented SE blocks in a 4-layer CNN; trained on MRI slices with 99.24% accuracy.
- **Comparative Study on Output Modes in Object Detection Distance Estimation**, IATMSI, Gwalior 06–08 March 2025
 - Designed multi-modal feedback (visual, audio, haptic) with user study.
 - **Publication:** 2025 IEEE International Conference on Interdisciplinary Approaches in Technology and Management for Social Innovation (IATMSI), Gwalior, India (DOI)
- **Speech Based Visual Aid for the Blind Eye using Deep CNN**, ETNCC, Namibia 23–25 July 2024
 - Designed a real-time object detection system using a CNN to assist visually impaired individuals.
 - Integrated real-time speech feedback with Python & PyAudio.
 - **Publication:** 2024 International Conference on Emerging Trends in Networks and Computer Communications (ETNCC), Namibia, South Africa (DOI)

Ongoing Projects

- Multi-modal Alzheimer's Detection
- ECG Signal Classification
- Flood Segmentation using Satellite Imagery Dataset
- GAN Applications in Space Exploration: Authoring a book chapter on generative models for interplanetary imaging.

Awards

- **Second Prize, Poster Presentation**, Industry Conclave, VIT Bhopal University, 3 August 2024.
 - Awarded for innovative design of speech-based assistive device prototype.
- **Raman Research Award (INR 5,000)**, VIT Bhopal University, March 2025.
 - Granted for publication in IEEE Xplore; recognized research excellence.

Certificates

- Applied Machine Learning in Python (Coursera)
- Simulink Onramp Course (MathWorks)
- Cloud Computing (Elite + Silver), NPTEL