SHRAVANI NALAWADE

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EDUCATION

• **Vishwakarma Institute of Technology Pune, India** *Jul 2021- Jun 2025*
B.tech in Electronics and Telecommunication CGPA: 9.75/10

• **D.B.J College Chiplun, India** *Jul 2019 - Jun 2021*
Class XII: State Board of Maharashtra Percentage: 87.50

•**United English School Chiplun, India** *Jul 2017 - Jun 2019*
Class X: State Board of Maharashtra Percentage: 79.80

PERSONAL PROJECTS

•**AI-Based Disaster Detection and Response from Satellite Images** *2025*
Deep Learning, Python, UNet, ResNet-50, ViT, Swin Transformer, DeepLabV3+

- Designed an end-to-end pipeline to detect flood-affected areas from Sentinel-1 radar imagery by preprocessing VV/VH polarizations and generating binary segmentation masks.
- Trained and benchmarked multiple deep learning models (UNet, ResNet50+Decoder, DeepLabV3+, Vision Transformer, Swin Transformer) for segmentation across 75 epochs.
- Achieved highest accuracy with DeepLabV3+ for precise boundary detection, while Transformer models provided stronger global context learning, highlighting trade-offs for real-world deployment.

•**DefectDetectNet: Advancing Industrial Defect Detection using Enhanced YOLOv7** *2024*
Python, YOLOv7, SimAM, TensorFlow/PyTorch, OpenCV

- Developed an automated defect detection system for steel surfaces using the NEU dataset (six defect classes), enhancing YOLOv7 with SimAM attention to improve sensitivity to small, low-contrast flaws.
- Built a detection pipeline with bounding-box labeling, training, and visualization-ready outputs for real-time inspection analysis.
- Achieved 99.2% accuracy in defect identification, demonstrating significant improvement in detection capability without increasing model size.

• **Expense Tracker Application in React and node.js** *2023*
HTML, CSS, JavaScript, MongoDB, React.js, Node.js

- Developed a MERN Stack expense tracker with secure user authentication and real-time analysis using JWT and Chart.js.
- Implemented state management using Redux, ensuring smooth component updates and better performance.
- Optimized for cross-browser compatibility and enhanced UX through responsive design and performance improvements.

TECHNICAL SKILLS AND INTERESTS

Languages: Python, SQL, Java(beginner).
Developer Tools: Power BI, MySQL, Jupyter Notebook, Visual Studio code, Git.
Coursework: Database Management Systems, Object-Oriented Programming, Operating Systems, Data Structures and Algorithms.
Other Skills: Strategic Analysis, Data Visualization, Report Writing, Stakeholder Collaboration, Content Writing (Technical Documentation).

CERTIFICATION

• **Microsoft Power BI Data Analyst – Microsoft,** Coursera *2024*

• **IBM Full Stack Software Developer Professional Certificate,** Coursera *2024*

ACHIEVEMENTS

• **Participated in Internal Smart India Hackathon 2023** *2023*

• **Engaged in Social Welfare Activities** *2022*

• **Led 3rd and 4th Year Project Teams** *2023 – 2024*