Shantanu Ingle

Nagpur | shantanuingle2004@gmail.com | 9503776407 | Shantanu Ingle | shantanu-ingle | Portfolio

Summary

Calm and consistent Computer Science student with strong problem-solving skills and a passion for Machine Learning and Deep Learning. Experienced in academic projects, both individually and in teams, with proven leadership. Highly punctual, obedient, and committed to delivering quality results.

Technical Skills

- **Programming Languages:** Java, Python, C, C++, SQL
- **Core Skills:** Data Structures & Algorithms (DSA), Object-Oriented Programming (OOPs)
- **Development:** Web Development (MERN Stack), Blockchain
- **Machine Learning Frameworks:** TensorFlow, PyTorch, scikit-learn
- **Cloud Platforms:** AWS
- **Tools & Technologies:** MongoDB, Flask, React, GitHub

Extra-Curricular & Technical Activities

- Member of the Career Development & Placement Cell, assisting in student career guidance and placement activities.
- Active member of ACM Chapter Nagpur, engaging in tech events, coding competitions, and AI/ML discussions.

Projects

Stemify: Multi-Instrument and Vocal Separation App ***Mar 2025 – May 2025***

- Engineered a U-Net-based deep learning pipeline to isolate vocals and individual instruments from music tracks via spectrogram analysis.
- Developed a full-stack platform using React (frontend) and Flask (backend) enabling file upload and audio playback.
- Designed an efficient separation and post-processing pipeline tailored for systems with limited GPU memory.

Smart Scheduling and Summarization App ***Oct 2024 – Nov 2024***

- Developed both an Android app (Java) and a React web app that utilize NLP to summarize messages and extract actionable details.
- Extracted event-specific date and time information from unstructured WhatsApp and email messages using custom NLP pipelines.
- Automated event creation by integrating with Google Calendar API, enabling users to directly schedule events from received messages.

Disease Prediction from Fundus Images ***Jan 2025 – Feb 2025***

- Constructed an ensemble classification model combining DenseNet, EfficientNet, and ResNet architectures.
- Utilized PyTorch and torchvision libraries to preprocess and classify retinal diseases from high-resolution fundus images.
- Attained a 98% classification accuracy on benchmark medical datasets, demonstrating robust generalization and precision.

Education

Shri Ramdeobaba College of Engineering & Management – Nagpur, B.Tech in Computer Science & Engineering — 2022 – 2026

- CGPA: 9.34/10
- **Honors Degree in Web Development**

Certifications & Courses

- GANs Specialization (DeepLearning.AI)
- Google Data Analytics (Coursera)