Yamini Masand

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EDUCATION

VIT Bhopal University   Bhopal, India
Bachelor of Technology, Computer Science (AI/ML) - CGPA: 9.15   *Sep 2022 – Present*

TECHNICAL SKILLS

Languages: Python, C/C++, Java, SQL, HTML, CSS, JavaScript
Frameworks/Technologies: Next.js, Node.js, Tailwind CSS, Bootstrap, Firebase
Developer Tools: PowerBI, Tableau, VS Code, WebStorm, Google Colab, Streamlit, Excel, MATLAB
Libraries: Pandas, NumPy, Matplotlib, Scikit-learn, TensorFlow, Hugging Face, Keras, OpenCV

EXPERIENCE

Indian Institute of Technology, Delhi   Dec 2024 – Jan 2025
Research Intern   *Delhi, India*
- Researched and implemented 3D model data mining techniques by replicating and analyzing academic codebases, with a focus on feature detection in CAD models using **OpenCascade**.
- Extracted and processed features from STEP files for creating 3D models and conducting engineering analysis.
- Delivered structured presentations translating complex research findings into actionable insights, enhancing clarity and technical communication within the research group.

Coforge Ltd.   Sep 2024 – Dec 2024
Machine Learning Intern   *Noida, India*
- Developed an AI-powered university chatbot using **Retrieval-Augmented Generation (RAG)**, enhancing the quality of responses to student queries with 90% accuracy and reducing manual intervention
- Automated collection and preprocessing of university-specific documents using Python-based web scraping, and fine-tuned transformer models via **Hugging Face** to adapt to domain-specific language and improve chatbot accuracy.

PROJECTS

Interview Genie | *Next.js, Firebase, Tailwind CSS, Vapi Voice Agents*   Jun 2025 – Jul 2025
- Developed a modern web platform for AI-powered mock interview preparation, combining voice- based interactions with dynamic question generation.
- Built with Next.js for both frontend and backend logic, integrated Firebase for secure authentication and real-time user data management.
- Implemented **Vapi's voice agents** and responsive UI with Tailwind CSS to deliver a seamless, immersive interview simulation experience.

Agro Care | *Python, Streamlit, TensorFlow, CNN*   Jan 2024 – Mar 2024
- Built a **CNN-based plant disease classifier** to detect **Healthy**, **Powdery**, and **Rust** from leaf images.
- Developed a multilingual **Streamlit web app** with image upload, disease prediction, chatbot support, and actionable remedies.
- Enabled **regional language translation** to ensure accessibility for users across diverse agricultural backgrounds.

SafeDrive | *Machine Learning, Computer Vision, OpenCV*   Aug 2023 – Sep 2023
- Developed a real-time drowsiness detection system using facial landmark analysis to monitor driver alertness.
- Achieved an accuracy of 93% for detecting yawning and closed eyes using YOLOv5, validated on a diverse dataset.
- Calibrated YOLOv5 model hyperparameter settings to enhance the detection of facial landmarks in dimly lit environments, resulting in a 10% improvement in yawn and eye closure detection accuracy.

HONORS AND ACHIEVEMENTS

- Recipient of the **FS-ISAC Scholarship 2025–26**, sponsored by Morgan Stanley, awarded for excellence in technology and commitment to promoting **Women in STEM** within the financial sector.
- Established a robust Research and Development framework while serving as **lead** for the Android Club at VIT Bhopal.
- Facilitated interactive workshops and speaker sessions for a group of 100+ students, immersing participants in machine learning fundamentals by applying learned theories to tangible projects with proven results.