Isha M Bhandary

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SUMMARY

A versatile Computer Science student with practical experience in machine learning, computer vision, software development. Skilled in programming languages like Python, Java,C,and HTML with strong expertise in web technologies, database systems, and open-source tools. Developed impactful projects including an AI-based Peripheral Arterial Disease detection system, a real-time object detection model using YOLO, and an interactive AI-powered Preplacement Preparation platform using full-stack web application. Completed several technical courses across automation, AI, and IoT, while actively participating in tech summits and competitions. A motivated learner with a keen interest in UI/UX, creative problem-solving, and emerging technologies.

EDUCATION

B.E - Computer Science & Engineering	2022-Present	CGPA: 7.57
Mangalore Institute of Technology & Engineering		
Senior Secondary (12th) – KSEEB	2020-2022	Percentage: 73.83
Secondary School (SSLC) –KSEEB	2019-2020	Percentage: 79.2

SKILLS

Languages	**:** C, Java, Python
Interfaces	**:** HTML, CSS, JavaScript, React.js
Database	**:** SQL,MongoDB
Tools	**:** Git, GitHub, Visual Studio Code, Solid Edge, Figma, Canva
Operating system	: Windows 11, Windows 7, Ubuntu

PROJECTS

Peripheral Arterial Disease Detection Using Machine Learning | Group of 4   March 2025 – Present
Technologies: Python, TensorFlow, Logistic Regression, SVM, LSTM, Hyperband Optimization
This project utilizes machine learning algorithms to detect Peripheral Arterial Disease (PAD) using clinical gait data and Doppler waveform signals. By analysing features like joint dynamics and ground reaction forces, the system accurately identifies PAD patients. The solution integrates signal processing, feature engineering, and model optimization (SMOTE + Hyperband) to create a non-invasive, early diagnosis tool suitable for wearable health monitoring

Object Detection Using Python| Group of 4   October 2024
Technologies: Python, OpenCV, TensorFlow, YOLO (You Only Look Once)
This project focuses on implementing object detection using Python by integrating deep learning-based models such as YOLO. Leveraging OpenCV for image processing and TensorFlow for model training and inference, the system identifies and localizes multiple objects within an image or real-time video feed. This solution aims to simplify automation in surveillance, retail, and smart city applications.

PrepMind platform using full-stack web application | Individual   May 2025
Technologies Used: React.js, Tailwind CSS, CRACO, PostCSS, FastAPI, Uvicorn, MongoDB, Python (venv), Node.js, npm, Git.
This project is an AI-powered Preplacement Preparation platform designed to support students with coding, aptitude, and interview readiness. The platform consists of a React-based frontend, a FastAPI backend, and MongoDB for data storage. Tailwind CSS is used for sleek and responsive UI design. The backend is structured to

expose APIs for features like user authentication, quiz/test modules, resource recommendations, and more. The system is modular, scalable, and designed for ease of deployment.

COURSES & VIRTUAL EXPERIENCE PROGRAMS
- **Circuit Simulation Onramp** by MathWorks
- **UiPath Automation Explorer for Students** by Uipath
- **MATLAB Onramp** by MathWorks
- **Introduction to specialized AI** by Uipath
- **Learning Internet of Things with Raspberry Pi** by Infosys
- **Reinforcement Learning Onramp** by MathWorks
- **Promt wars** by C.O.R.E MITE
- **Cybrary orientation** by cybrary
- **RPA Developer Foundation (v2021.10)** by Uipath
- **Solving Nonlinear Equations with MATLAB** by MathWorks

TECHNICAL ACTIVITIES & ACHIEVEMENTS

- Attended the Bangalore Tech Summit 2024 under the guidance of Mangalore Institute of technology and Engineering, where I had an opportunity to interact with some amazing companies who showcased solutions that are redefining the tech landscape.
- I attended the Prompt War competition offline, which was held at Mangalore Institute of Technology and Engineering. It was a fun and challenging event where we had to respond creatively to given prompts without using the internet on the spot.

HOBBIES
- Follow up with trending technology
- Writing and reading notes
- UI/UX prototyping
- Practicing typing speed and accuracy