



Atharva Mandavkar

Roll No.: 1032211830

Bachelor of Technology

Electronics and Communication Engineering

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EDUCATION

- **Dr Vishwanath Karad MIT World Peace University, Pune** August 2019 – March 2025
Bachelor of Technology in Electronics and Communication Engineering (B.Tech) CGPA: 8.85/10
- **Namo Rims Jr. College, Pune** August 2019 - July 2021
Higher Secondary Education (Grade 12th) Percentage: 91.50% out of 100%
- **Sacred Heart Convent High School, Ratnagiri** Percentage: 93.20% out of 100%
Secondary Education (Grade 10th)

PROJECTS

- **Real-Time Crime Detection, Crowd Management & Work Monitoring using AI-ML** September 2023 – March 2024
Team EnvisionAI, Smart India Hackathon 2023
 - Tools & technologies used: Python, HuggingFace, Pytorch, Gradio
 - Creating an App for Indian Railway Authorities to Prevent Crime, Crowd Congestion, and Monitor Work on Railway Stations.
 - Working on Machine Learning Architecture for Crime Detection, Crowd Management & Work Monitoring.
 - Implementing Hugging Face **Vision Transformer (ViViT)**, **3D Convolutional Neural Networks (3DCNNs)** and **YOLO**.
- **E-Waste Segregation with OpenCV using YOLOv8** March 2023 - July
2023 A ML model trained for multi-class classification of E-waste using YOLOv8
 - Tools & technologies used: Python, OpenCV, YOLOv8, Jupyter, Raspberry Pi
 - Trained multiple **YOLOv8** models (nano, small, medium, large, and x-large) using a custom dataset for **Multi-Class Classification**.
 - Analyzed the accuracy and space complexity of these models on a Raspberry Pi Model 4b with Pi Camera.
- **DataLogger using Embedded Devices and Modbus** February 2024 - June
2024 This Project is proposed by Atlas Copco to develop a system for logging Data
 - Tools & technologies used: Python, MySQL, PythonAnywhere, Postman MQTT, Raspberry Pi, STM32
 - Our team is developing a Datalogger system which will be installed on Mining Trucks to obtain relevant Data.
 - Interfacing the Modbus using TCP/IP, MQTT protocols to configure the addresses of the Modbus and then acquiring relevant data from the connected Sensors and Visualization of Data.
- **Smart Crime Detection using Existing CCTV Infrastructure** September 2023 – March 2024
Team EnvisionAI, eYantra Innovation Challenge 2023-24
 - Tools & Technologies: Python, ViViT, PyTorch, Twilio, DynamoDB, MongoDB, Android Studio.
 - Creating a Centralized Database for the Authorities to Prevent Crime, an Alert System, and a Web and an Android App.

TECHNICAL SKILLS AND INTERESTS

Languages: Python, MATLAB, C, C++, HTML, CSS, R

Developer Tools: Jupyter, Tableau, VScode, Git, GitHub, PythonAnywhere

Docker, Frameworks: Pytorch, Tensorflow, OpenCV,

YOLO. Cloud/Databases: MySQL, MongoDB, Excel, AWS
DynamoDB.

Soft Skills: Problem-Solving, Inter-personal Communication, Teamwork, Critical Thinking.

Areas of Interest: Machine Learning, Computer Vision, Natural Language Processing.

WORKSHOPS/COURSES COMPLETED

- . **Fundamentals of Deep Learning by Nvidia** *Nov 2023*
Key Skills: Deep Learning, DLI
- . **National Academic Immersion Program in Robotics & IoT. NITTTR, Bhopal** *10-22 July 2023*
Key Skills: PLC, Mindsphere (IOT), Robot Studio, Electric Drives
- . **Masterclass on API Development using Node.js** *January 2024*
Key Skills: Application Programming Interface API, API Development
- . **Scientific Use of Machine Learning on Low Power Devices, ICTP** *17-21 April 2023*
Key Skills: TinyML, Developing TinyML and its Application
- . **Brainy Pi Workshop at IoTIoT.in** *4 November 2023*
Key Skills: Implementing interfaces on BrainyPi
- . **AWS Academy Graduate- AWS Academy Cloud Foundations** *February 2024*
Key Skills: Amazon Web Services (AWS)

ACHIEVEMENTS

- . **Smart India Hackathon 2023 (University Internal)** Selected for National Level in SIH 2023 *October 2023*
- . **eYantra Innovation Challenge 2023-24 (National Finals)** Won the Best Implementation Award *April 2024*
in National Finals.
- . **MIT World Peace University HackMITWPU Workathon** Won the Finals in the Workathon *March 2024*
Competition under HackMITWPU organized by MIT World Peace University