



KEY EXPERTISE

Internet of Things Python Excel SQL Machine Learning

EDUCATION

MIT Academy of Engineering, Pune

2021 - 2025

B.Tech. - Electronics and Telecommunication Engineering | CGPA: 8.14 / 10

Gandhi city public school and college, Wardha

2021

12th | MSBSSHSE | Percentage: 91.83 / 100

Alphonsa .Sr. Sec. School, Wardha

2019

10th | CBSE | Percentage: 78.80 / 100

INTERNSHIPS

Hackveda Limited | Technology

01 Jul, 2024 - 31 Aug, 2024

Python Developer

Key Skills: Python Machine Learning Deep Learning Data Visualization

- Developed and submitted project source codes and tasks according to requirement specifications.
- Conducted and prepared detailed test reports and presentations.
- Deployed projects on GitHub and other recommended platforms for live demos.
- Authored comprehensive software documentation for project.

PROJECTS

App Development for Specially-abled(deaf and mute) people

31 Jul, 2023 - 12 Jun, 2024

Mentor: Mrs. Aarti Deshpande | **Team Size:** 4

Key Skills: Python Deep Learning Image Processing

- Developed a machine learning model for sign language recognition, targeting the deaf and mute community.
- Designed a specialized website for effective communication, integrating real-time sign language interpretation.
- Committed to leveraging technology for social good, promoting accessibility and inclusion for individuals with diverse abilities.

Dancing Robot Project

Mentor: Nutun Bansod | **Team Size:** 4

Key Skills:

Microcontroller Programming Servo and Gear Motor Integration Embedded Systems Development Motion Control
Hardware-Software Integration

Developed a dancing robot capable of dynamic movements and rotations, designed to perform entertaining dance routines. The robot featured:

- Wheels for rotational movements (clockwise and anti-clockwise).
- Articulated limbs (hands, legs, and head) capable of up, down, and side-to-side motions.
- Utilized Arduino Uno for programming and controlling the robot's movements.
- Incorporated servo motors for precise control of hand, leg, and head movements, and gear motors for wheel rotation.
- Demonstrated proficiency in robotics, motor integration, and microcontroller programming.

Walking Stick for the Visually Impaired

Mentor: Vinayak Kulkarni | **Team Size:** 4

Key Skills:

Arduino Programming Sensor Integration Embedded Systems Problem-Solving Hardware-Software Integration

Designed and developed an assistive walking stick to enhance mobility and safety for visually impaired individuals. The stick featured:

- Ultrasonic sensor to detect obstacles in the user's path by measuring distance.
- Arduino Uno for programming and controlling sensor inputs and outputs.
- Buzzer system to alert users with sound signals when an obstacle is detected.

- Provided a reliable, user-friendly solution for obstacle detection and navigation.
- Demonstrated skills in embedded systems, sensor integration, and assistive technology development.

IoT-Based Smart Home Automation

Mentor: Vikrant Varma | **Team Size:** 3

Key Skills: ESP32 Programming Smart Home Automation Cloud-Based System Design

Developed an IoT project enabling remote control of lights and appliances using a smartphone. Key features included:

- Utilized ESP32 microcontroller for Wi-Fi connectivity and IoT functionality.
- Integrated with the Blynk platform for seamless remote operation via a smartphone app.
- Enabled users to control appliances from long distances, enhancing convenience and energy efficiency.
- Showcased expertise in IoT systems, cloud-based platforms, and mobile app integration.

X-Ray Image Classification Using VGG16

Team Size: 3

Key Skills: Machine Learning Deep Learning Data Processing Python Programming Data Visualization

- Implemented the VGG16 convolutional neural network to classify X-ray images into three categories: Covid, Normal, and Pneumonia.
- Utilized pretrained ImageNet weights and fine-tuned the model for medical imaging tasks.
- Performed dataset preprocessing using OpenCV for resizing, normalization, and TensorFlow/Keras for model training and evaluation.
- Trained the model with 15 epochs, achieving a baseline accuracy of 41% for Covid classification.
- Addressed overfitting by optimizing training parameters and suggested improvements like data augmentation.
- Proposed deployment as a web-based platform for healthcare diagnostics.

ACHIEVEMENTS

- o Indo-Japan Business Council (IJBC) Momento
- o 1st Prize Winner in Project to Product Competition Organized by E-cell MITAOe

ASSESSMENTS / CERTIFICATIONS

Java Exploler

Aggregate: 85 / 100

Key Skills: Basics of Java programming language

IR4.0 Foundation

Virtual Internship Program

Project Management

POSITIONS OF RESPONSIBILITY

Secretary

- o Managed the **documentation** of workshops, seminars, and events organized by the Foreign Language Club.
- o Coordinated communication by sending regular updates and event notifications to **college staff and members** regarding upcoming language workshops and activities.
- o Ensured smooth execution of club activities through effective organizational and administrative support.
- o Fostered collaboration and engagement within the college community by promoting language learning opportunities.

SEMINARS / TRAININGS / WORKSHOPS

CCSK v4.1 Foundation Training Institute Name: Cloud Security Alliance

29 Jun, 2023 - 29 Jun, 2023

CO-CURRICULAR ACTIVITIES

- o Secretary of Foreign Language Club MITAOE
- o Music Club Member

EXTRA CURRICULAR ACTIVITIES

- o Preparing for CDS and AFCAT

PERSONAL INTERESTS / HOBBIES

- o Singing
- o Oil poster Drawing

- Dancing
- Documentation Writing

PERSONAL DETAILS

Gender: Female

Marital Status: Single

Current Address: 401, c wing, in front of manas girls hostel,
dehu road, alandi, pune, Pune City, Maharashtra, India - 412105

Emails: arya.khobragade@mitaoe.ac.in , aryakhobragade33@gmail.com

Date of Birth: 21 Feb, 2004

Known Languages: English, Hindi, Marathi

Permanent Address: Ward no 2, In front of Gram Panchayat,
Boargaon Meghe Wardha, Wardha, Maharashtra, India - 442001

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