

Vivek Raj

PRE-FINAL YEAR UNDERGRADUATE

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Education

MIT Academy of Engineering

BACHELOR OF ENGINEERING IN COMPUTER ENGINEERING, PUNE

8.22/10.0

Aug 2021 - July 2025

Higher Secondary

KENDRIYA VIDYALAYA NO. 2, HYDERABAD

94.8 %

2019-2021

Secondary

KENDRIYA VIDYALAYA NO. 2, HYDERABAD

92.6 %

2018-2019

Skills

Languages C/C++, Python

Frameworks Django, React, Bootstrap, Tailwind CSS

Web Technologies HTML, CSS, JavaScript, Node.js, Express

Database SQL, MongoDB

Cloud AWS (Amazon Web Services)

Version Control Git

Programming Paradigm Object-Oriented Programming (OOPs)

Projects

Emotion Detection

- Designed and implemented a **Convolutional Neural Network (CNN)** model to classify **emotions into seven categories**
- Attained a commendable **accuracy rate of 82%** in emotion recognition, demonstrating the effectiveness and reliability of the developed system
- Leveraged expertise in machine learning, including **CNN architecture design, data preprocessing, model training, and evaluation**, to accomplish project objectives effectively

Portfolio

- Developed a dynamic and visually appealing personal portfolio website using **React.js** and **Tailwind CSS**, ensuring seamless **responsiveness** across various devices and screen sizes
- Implemented sections to **showcase personal projects, skills, experiences, and achievements** effectively

Safety Object Detection

- Implemented **YOLO v8** for real-time detection of safety equipment such as **hard hats, gloves, vests, and boots** worn by workers on construction sites
- Developed a user-friendly **website interface** allowing contractors to remotely supervise workers and ensure compliance with safety regulations regarding the usage of essential safety gear
- Successfully deployed the safety object detection system on **Amazon Web Services (AWS)**, ensuring scalability, reliability, and accessibility for contractors to monitor worker safety from anywhere

Achievements

- Solved 150+ problems on Leetcode
- Silver honor in International Maths Olympiad 2023
- Participated in Hacktoberfest 2023