

Pratik K. Rathod

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EDUCATION

Vishwakarma Institute Of Information Technology

B. Tech in Computer Science And Engineering;

CGPA: 9.67/10.00 (present)

Pune, Mah.

Feb 2021 – Jun 2024 (Expected)

EXPERIENCE

Future Ready Talent Intern (Microsoft)

Student Intern

Virtual

Apr 2022 – Jul 2022

- During this internship I got to learn several concepts about Azure, Cloud Computing, GitHub and other technologies. And with that learning I have made a Project named- Face Mask Detection
- The Face Mask Detection where it uses facial and object recognition to accurately distinguish those with or without masks. The user would upload an image and the program would analyze it and output whether or not they're wearing a mask.

PROJECTS

Covid Bed Reservation System | 📄

- A C project which implements a variety of image processing operations that manipulate the size, filter, brightness, contrast, saturation, and other properties of PPM images from scratch.
- Added recursive fractal generation functions to model popular fractals including Mandelbrot set, Julia set, Koch curve, Barnsley fern, and Sierpinski triangle in PPM format.

Face Mask Detection Web Portal | 📄

- A C++ project in which you can play chess against an AI with a specified decision tree depth that uses alpha-beta pruning algorithm to predict the optimal move.
- Aside from basic moves, this mini chess engine also implements chess rules such as castling, en passant, fifty-move rule, threefold repetition, and pawn promotion.

Responsive Website for Dairy | 📄

- A Simulink project which can accurately simulate the motion of a flying rocket in one-dimensional space.
- The project implements the forces acting on a rocket which are drag, weight, and thrust as subsystems that take time-variant parameters into consideration such as distance from the center of Earth, mass and velocity of the rocket, and air density at different layers of Earth's atmosphere.

SKILLS

Programming: c, C++, Python, Java, MATLAB, Flask, MySQL

Technologies: Git, Heroku, Cloud, Azure

Languages: Marathi/Hindi (Native), English (Professional), French (Elementary)

ORGANIZATIONS

Cisco Networking Academy VIIT

Publicity Head

Jun 2022 – Present

LBT Community Core Member

Discord Manager

Mar 2022 – Present

Cisco Networking Academy VIIT

Head Of Department

Sep 2021 – Jun 2022

Sports Council VIIT

Technical Team Member

Jul 2021 – Jul 2022