

ABHISHEK PAKHMODE

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EDUCATION

Pimpri Chinchwad College of Engineering , Pune

JUNE 2025

Bachelor of Information Technology, CGPA: 8.7

EXPERIENCE

Web and Robotics system developer

Sept 2022 - Sept 2023

Team Automaton

Robotics Club, PCCOE Pune

Skills Used : html/css, js, bootstrap, Arduino, python, embedded C, sensors interfacing

- Designed and developed responsive website.
- Worked on generating versions of two robots code made for International level robotics competition “ABU Robocon 2023”.

PROJECTS

HealthPredict AI

MERN (MongoDB, Express.js, React.js, Node.js), Python (Flask), HTML, CSS

[Github Link](#) [Website Link](#)

- Implemented secure user authentication with OTP-based email verification and Google Sign-In, ensuring safe access to sensitive routes
- Developed a Flask-based RESTful API to serve machine learning predictions for diabetic retinopathy and brain tumor detection using CNN and YOLOv8 models.
- Utilized Redux for efficient state management and consistent application state across the user interface.
- Integrated a feature to save and track user health records and prediction results for ongoing monitoring.

Secrets

Node js, Express js, MongoDB, OAuth 2.0 Authentication, HTML, CSS

[Github Link](#) [Website Link](#)

- The app made to share the secrets anonymously with other users.
- Integrated with user authentication by using passport middleware with google sign-in facility.
- Supports CRUD Operations, user dashboard.
- Hosted on platforms like render and vercel.

Smart Lab and Smart Stairs

Arduino, Sensors interfacing, embedded C

[Github Link](#)

- The project centered on the integration of IoT and Automation, utilizing a range of sensors to detect temperature, movement and smoke.
- Provides remote control to all the electrical appliances through mobile app connected through bluetooth.
- It triggers a fire alarm through the activation of buzzers accompanied by red lights.

SKILLS

Languages: C, C++, Java, Python, JavaScript

Web Development: HTML, CSS, React.js, Redux, Node.js, Express.js, Bootstrap, Tailwind CSS, MongoDB, Flask

Tools: Figma, Postman, Git, Github

Machine Development: Embedded C, Raspberry Pi, Jetson

EXTRA-CURRICULAR ACTIVITIES

- Research paper on "**Brain Tumor Detection with YOLOv8**" presented at **CONIT 2024**, K. L. E. Institute of Technology, Hubballi, Karnataka, India, and published on the **IEEE Xplore** platform. [link to paper](#)
- IT Dept **Library Committee Head** in year 2022-23.
- Maintaining an ongoing **180+ days streak** on LeetCode to enhance problem-solving skills.
- Conducted sessions on **Robotics** and **sensors interfacing** at Dexterlabz India.
- Interested on coding platforms like **Codeforces**, **Codechef**, **HackerRank**, etc.