

# Kamaaksha Rajendra Kharul

✉ [kharulkamaaksha@gmail.com](mailto:kharulkamaaksha@gmail.com)

🌐 [LinkedIn](#)

☎ +91-7083191478

🐙 [GitHub](#)

🔗 [LeetCode](#)

🌐 [Portfolio](#)

— Wakad, Pune, Maharashtra

## Education

**Pimpri Chinchwad College of Engineering (PCCOE)**, Pune, Maharashtra

Bachelor of Technology in Computer Engineering

2023 – 2027

**CGPA: 8.93 / 10**

Relevant Coursework: Data Structures and Algorithms, Database Management Systems, Object-Oriented Programming, Operating Systems, Machine Learning, Neural Networks, Artificial Intelligence, Data Visualisation

## Skills

- **Programming Languages:** Python (AI/ML model development, data analysis), C++ (competitive programming, system design), Java (application development), JavaScript (web applications)
- **Web Development:** HTML, CSS, React (dynamic UI), Node.js (backend), Firebase (authentication, database), Vercel (deployment)
- **AI and Machine Learning:** TensorFlow, Keras (deep learning models), MobileNetV2 (image classification), LangChain (LLM applications), LLM Fine-Tuning, scikit-learn (regression models)
- **Cloud and Tools:** AWS (cloud deployment), Git (version control), Tkinter (GUI development), Matplotlib (data visualization)
- **Computer Science Fundamentals:** Data Structures and Algorithms, Database Management Systems (SQL), Object-Oriented Programming, Operating Systems

## Projects

**Cotton Crop Disease Prediction System** — *Python, TensorFlow, Keras, Tkinter, MobileNetV2*

2025

[\[GitHub\]](#)

- Developed a desktop application to detect cotton crop diseases through image uploads, supporting English, Hindi, and Marathi for accessibility.
- Fine-tuned MobileNetV2 model, achieving **93% accuracy** using data augmentation, batch normalization, L2 regularization, dropout, and learning rate scheduling.
- Provided chemical and biological treatment recommendations based on disease detection, enhancing farmer decision-making.
- Implemented a user-friendly GUI with Tkinter for seamless interaction and result visualization.

**Fuel Consumption Prediction Tool** — *Python, scikit-learn, Matplotlib*

2024

[\[GitHub\]](#)

- Contributed to a regression-based tool to predict vehicle fuel efficiency using preprocessed datasets.
- Designed intuitive data input forms and visualized predictions with Matplotlib for enhanced user experience.
- Optimized data preprocessing pipelines, improving model accuracy and runtime efficiency.

**Student Task Manager** — *HTML, CSS, JavaScript*

2024

[\[Live Demo\]](#)

- Collaborated on a queue-based task management web application to improve student productivity.
- Implemented a responsive, user-friendly interface with prioritization logic to streamline task organization.
- Deployed on Vercel, ensuring cross-device compatibility and accessibility.

**Personal Finance Tracker** — *HTML, CSS, JavaScript*

2024

[\[Live Demo\]](#)

- Contributed to a stack-based web application for tracking personal expenses with a focus on usability.
- Developed interactive UI components for expense logging and visualization, improving financial management.

- Integrated real-time data updates using JavaScript for dynamic user feedback.

## Certifications

---

- Basics of Python — Coding Ninjas 2024
- Data Structures and Algorithms Master Course — CodeHelp (Enrolled) Ongoing

Coding

Profiles

---

- **HackerRank:** 5 Stars in C++ and Python [\[Profile\]](#)
- **LeetCode:** Solved 300+ Problems [\[Profile\]](#)

Extracurricular

Activities

and

Achievements

---

- **Smart India Hackathon (SIH):** Participated twice, solving real-world problems in team-based coding competitions.
- **ACM-W Technical Team Member:** Led initiatives to promote women in computing at PCCOE, organizing workshops and events. Volunteered PCCOE's first ever women hackathon in TechFest.
- **ML Wars Runner-Up:** Secured second place in machine learning competition at PCCOE TechFest 2025.
- **Research Paper Co-Author:** Published *The Influence of Universal Human Values (UHV) on Work-Life Balance in Student Life*, exploring student well-being.
- **Madhyama Purna in Kathak:** Secured distinction and first class in 5 levels of Kathak.