

# Atharva Mandave

+91 9403657120 | [atharva.22310951@viit.ac.in](mailto:atharva.22310951@viit.ac.in)

[LinkedIn](#) | [GitHub](#) | [Leetcode](#)

## TECHNICAL SKILLS

- **Programming Languages:** Java, Python, JavaScript
- **Core CS Subjects:** Data Structures & Algorithms, DBMS, Operating Systems, Computer Networks
- **Frameworks & Libraries:** HTML, CSS, React.js, Node.js, Next.js, Express.js
- **Databases:** MySQL, MongoDB
- **Machine Learning & Data Analysis:** Machine Learning, Deep Learning, Data Preprocessing, Model Building & Evaluation
- **Version Control:** Git, GitHub
- **Tools:** Excel, Power BI, Tableau, Jupyter Notebook, Google Colab , VS Code

## EDUCATION

### Vishwakarma Institute of Information Technology, Pune

Bachelor of Engineering in Computer Engineering

GPA: 8.77

2027

## PROJECTS

### AI-Based Code Quality Auditor & Architecture Reviewer with RAG Assistant | [DEMO](#) | [Github](#)

- Built a full-stack platform that audits entire codebases using AST-based static analysis + LLM reasoning, identifying security, performance, maintainability, and architecture issues.
- Designed an industry-standard chunking and retrieval pipeline, enabling analysis of large repositories and a RAG-based chatbot that answers developer questions directly from the project's code and analysis results.
- Implemented AI-driven auto-refactoring, architecture visualization, developer scoring (0–100), and professional PDF audit reports.

### AI-Based Research Paper Creation & Analysis Engine | [Github](#) | [Demo](#)

- Built an AI-powered research paper generator using Groq Llama 3.3 (70B) with real citation retrieval via DuckDuckGo academic search, plus a FastAPI microservice for generation, summarization, rewriting, and grammar correction.
- Designed an IEEE formatting engine with live preview and export (PDF/DOCX) using html2pdf, html-docx-js, and custom layout algorithms.
- Implemented advanced plagiarism detection (web-search-based) and AI-content detection (entropy + LLM stylistic analysis), providing similarity scores, highlights, and humanization tools..

### Garbage Classification System | [Github](#)

- Developed a real-time garbage classification system using TensorFlow and MobileNetV2, classifying waste into 12 categories with recyclable vs non-recyclable detection.
- Implemented an end-to-end ML pipeline including data preprocessing, augmentation, transfer learning, fine-tuning, and model evaluation for improved accuracy.
- Built and deployed an interactive Streamlit web application supporting live camera input and image uploads for instant predictions.

## EXPERIENCE

### Full Stack Developer - Vighnaharta Techfabrica Innovations LLP

Aug 2025 – Oct 2025

- Architected and developed a full-stack web platform using **Next.js, React, Node.js, and MongoDB** to manage research paper submissions and reviews efficiently.
- Created a multi-role review workflow for authors, reviewers, and editors, improving coordination and reducing review time by approximately 40%.
- Deployed the application using Hostinger, maintaining scalability and reliability within an Agile development setup using GitHub.

## CERTIFICATIONS

- Data Structures and Algorithms in Java (Infosys Springboard)
- Complete A.I. & Machine Learning, Data Science Bootcamp (Udemy)
- CCNA: Introduction to Networks (Cisco Netacad)