

# Omkar Deshmukh

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## EDUCATION

### Pune Institute of Computer Technology

Bachelor of Engineering in Computer Engineering

- SCGPA - 9.26

Pune, Maharashtra

Nov. 2022 – Jun. 2026

### RMD Sinhgad College

completed 12th grade

- Overall - 94.4%
- PCM - 95.6 %

Pune, Maharashtra

Aug. 2020 – May 2022

### Podar International School

Completed 10th grade

- Overall - 98.8 %

Pune, Maharashtra

Aug. 2010 – May 2020

## ABOUT ME

I am a proficient web developer and an AI/ML developer who likes to keep up with new technologies and learn new things. I am also very competitive and like to solve coding problems frequently.

## TECHNICAL SKILLS

**Languages:** Java, Python, C++, JavaScript, HTML/CSS

**Frameworks:** React, Node.js, Tailwind

**Developer Tools:** Git, GitHub, Eclipse, VS Code, PyCharm, Vercel, Streamlit

**Libraries:** Express, ZOD, JWT, Recoil, Mongoose, Sequelize, FAISS, LangChain, LangGraph, Crew AI

**Databases:** MongoDB, Postgres

**Technologies:** Conventional ML Models, Retrieval-Augmented Generation (RAG), Large Language Models (LLMs), AI Agent Development

## CODING PLATFORM PROFILE

**Leetcode** | Rating 1711 | [Profile](#)

- Completed 340+ questions

**CodeChef** | Rating 1618 | [Profile](#)

- 3 star

## EXPERIENCE

### Backend Engineer (Intern)

TechnoGrowth Software Solutions Pvt. Ltd

May 2024 – Aug 2024

Pune, MH

- **Project Overview:** Contributed to the development of the Taht-Talbak project, a comprehensive platform combining functionalities similar to Uber, Porter, and Zoomcar for the Kuwait market. The platform aimed to enhance mobility services for users in Kuwait, offering ride-hailing and logistics solutions.
- **Key Functionality:**
  - \* Engineered REST APIs to manage complex scenarios efficiently, enabling seamless interaction between users, drivers, and the platform.
  - \* Integrated Mapbox API for geocoding based on longitude and latitude, allowing accurate location data and real-time navigation services.
  - \* Implemented zone management functionality based on client specifications to handle geographical areas and operations.
  - \* Added socket functionality to connect drivers and the server for real-time order emission and updates, enhancing communication and operational efficiency.
- **Tech Stack:** Node.js, Express.js, Mapbox API, WebSockets, RESTful APIs

## WEB + AI/ML PROJECTS

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### LogSentry | *Random Forest, XGBoost, LLaMA 3.1 (8.1B params), React, Node, flask* | [Deployed](#) ([Github](#))

- \* **Project Overview:** Developed an automated error log categorization system that classifies logs into critical, non-critical, and warning levels, providing real-time insights into system health.
- \* **Key Functionality:** The system continuously monitors a specified error log file path, updating classifications in real-time as new logs are generated.
- \* Utilized machine learning models, including Random Forest and XGBoost, for high accuracy in classifying error logs.
- \* Implemented troubleshooting pages for each error type, enhanced by LLaMA 3.1 (8.1B parameters) to provide contextual solutions and guidance for efficient issue resolution.

## AI/ML PROJECTS

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### AI Agentic Search Engine | *Langchain, langGraph, Serper, Scraper* | [Deployed](#) ([Github](#))

- \* **Project Overview:** Developed an Agentic search engine leveraging Langgraph to build a multi-node workflow, enabling efficient data retrieval and processing.
- \* **Key Functionality:** Integrated multiple nodes including Planner, Selector, Reporter, Reviewer, Router, and FinalReport to streamline the data-fetching and reporting process.
- \* The system leverages Serper and Scraper to fetch data from the internet, providing concise and accurate output through the power of large language models (LLMs).

### Autonomous Code Review Agent System | *FastAPI, Celery, Redis, AI Agents* | ([Github](#))

- \* **Project Overview:** Built an AI-powered system to automate GitHub pull request reviews using autonomous agents, providing structured feedback asynchronously via a REST API.
- \* **Key Functionality:** Integrated FastAPI for API management, Celery for asynchronous task handling, and Redis for efficient task state management.
- \* The system utilizes advanced LLM models to analyze code across multiple languages, identifying issues such as style violations, potential bugs, and performance improvements.
- \* **Architecture Highlights:** Composed of FastAPI, Celery workers, AI agents, and GitHub integration for seamless pull request analysis and result retrieval.

### EduPlus Chatbot | *Langchain, FAISS, LLaMA 3.1 (70B params), Streamlit* | [Deployed](#) ([Github](#))

- \* **Project Overview:** Developed an advanced chatbot designed to assist students with inquiries related to EduPlus ERP software, enhancing their user experience and accessibility.
- \* **Key Functionality:** Implemented a Retrieval-Augmented Generation (RAG) architecture, leveraging FAISS for efficient vector-based search and context retrieval, combined with LLaMA 3.1 (70B) for generating accurate and contextual responses.

## WEB PROJECTS

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### TechMart | *React, Node, Express, OAuth, MongoDB* | [Deployed](#) ([Github](#))

- \* **Project Overview:** Developed a website where users can buy and sell electronics, providing a seamless platform for transactions and user management.
- \* **Key Functionality:** Implemented OAuth (Google Sign-in) for authentication alongside traditional username/password authentication. Enabled users to create, manage, and edit ads, and update their personal information.

### Internship Details Management System | *MySQL, Express, Node, React, Zod* |

- \* **Project Overview:** Developed a comprehensive management system for a college to efficiently handle and manage students' internship details.
- \* **Key Functionality:** Designed and implemented a custom query handler for versatile database queries, enabling the system to support various data retrieval needs. Configured data ingestion from Excel files and student inputs, allowing for customized report generation based on college-specific requirements.
- \* **Additional Details:** Deployed the frontend on Vercel for easy access, while hosting the backend on college infrastructure for seamless integration.

## VOLUNTEERING

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**Member at PICT MUN**

Jan 2023 – Sept 2023

*Team Marketing*

**Member at PICT EDC**

Sep. 2023 – Feb 2024

*Team Publicity and Operations*

**Member at PICT IEEE**

Jan 2023 – Present

*Technical Team*

## ACHIEVEMENTS

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**Hackathons** : Finalist in COEP Hackathon