Omkar Ganesh Mahabdi

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Education

BTech Computer Science Engineering   **2025**

MIT World Peace University (Pune, MH)   8.5

HSC-XII PCM Stream   **2020**

NAMO RIMS Junior College (Pune, MH)

CBSE-X Science Stream   **2018**

Army Public School (Pune, MH)

Key Achievements

- A **runner-up** in the **HackMIT** competition and a participant in the **Mercor Hackathon**, exhibiting flexibility in addressing practical issues.
- Demonstrated **leadership skills** by spearheading event organization initiatives in **HackMIT** and **RIDE**.

Technical Skills

- **Languages:** Python, C++, JavaScript.
- **WebTecnologies:** HTML5, CSS3, Node.js, ReactJS, Expressjs, Django.
- **Database:** MySQL, MongoDB, Postman, PostgreSQL, ChromaDB
- **Data Science(AI/ML):** NLTK, NLP, LLMs, BERT, GPT-3, OpenAI, RAG, BERT, Gemini Pro, Multimodal.

Experience

eInfochips (An Arrow Company)   **Pune, MH (**On Site**)**

Associate Engineer (Windows Audio Recorder & Visualizer App – C++, MFC, WASAPI)   *January 2025 – Present*

- Developed a real-time desktop audio recorder with input level visualization, supporting both default and raw capture modes via WASAPI.
- Integrated device change detection and implemented loopback recording using IAudioClient3 and Core Audio APIs.

Vidyarthimitra.org   **Pune, MH (**On Site**)**

Full Stack Developer Intern   *June 2024 – December 2024*

- Developed a full stack website using the MERN stack, enabling student registration, college prediction, and exam enrollment functionalities.
- Collaborated closely with cross-functional teams to ensure seamless integration, testing, and deployment of solutions.

Projects

Loan Onboarding System (Django, PostgreSQL, Google Cloud Storage, REST API)

- Built a loan onboarding system with Django and Django REST Framework to manage loan applications, financial details, and user accounts across banks.
- Designed multi-tenant architecture with dynamic database routing for isolated bank databases.
- Integrated Google Cloud Storage and JWT authentication for secure file management and user sessions.

Vidyarthimitra College Predictor (React, Node.js, MongoDB)

- Designed and implemented a robust full-stack college predictor application using the MERN stack, enabling seamless student registration, college prediction, and exam enrollment processes.
- Collaborated closely with cross-functional teams to ensure integration, testing, and deployment aligned with project objectives.
- Optimized user experience by incorporating dynamic components and responsive design principles.

RidEasy (Bike Booking)

- Developed a user-centric online test bike ride booking application to enhance urban transportation accessibility.
- Utilized React, Tailwind CSS, Node.js with Express, and MongoDB, with React Fiber for efficient rendering.
- Collaborated in a team of 3 developers, adhering to agile methodologies for iterative development.

Car Price Prediction and Analysis

- Data Cleaning and Feature Engineering, Performed Exploratory Data Analysis, Created a Pipeline to fit various Regression.
- Objective : A Streamlit WebApp that can predict price of a used car. Followed, Life Cycle of a Data Science Project.
- Tools : Machine Learning | Regression | Linear | Polynomial | Lasso | Ridge | Streamlit
- Used Octoparse to Scraped Data from Cars24.com

Personal Details

- **Languages:** English, Hindi, Marathi, Japanese.
- **Interests:** Music, Reading & Arts