


AMAL VERMA

☎ (+91)98209-77209 ✉ amalvermaster@gmail.com  linkedin.com/in/amal-verma  github.com/Amal-Verma

Education

Veermata Jijabai Technological Institute

Bachelor of Technology in Information Technology, CGPA - 9.23

2023 – Present

Mumbai, Maharashtra

KJ Somaiya College of Science and Commerce

HSC - 93.83%, MHT-CET - 99.85%

2021 – 2023

Mumbai, Maharashtra

Projects

Mappa Collaborative Workspace | Next.js, FastAPI, Supabase, LiveBlocks

February 2025

- Built a universal collaboration platform for corporate teams, educators, and government, integrating real-time collaboration, video conferencing, and task management.
- Developed an online real-time collaborative IDE with a custom version control system featuring a merge conflict resolver, organized within a structured repository.
- Integrated tools such as a terminal, chat sessions with video conferencing, and an AI chatbot to enhance the collaborative experience.

Outlin | Next.js, Redux, TypeScript, Tailwind

January 2025

- A drawing-based tool that transforms designs into react code.
- Utilizes an TypeScript **Tree** class to manage UI components—supporting insertion, deletion, normalization, copy-paste, selection, export, and import operations.

Smart-Mail Guard | Python, BERT

September 2024



- Implemented a **machine learning** model using BERT to classify emails into categories such as Important, Personal, Finance, Spam, Social, and Promotional with an accuracy of **87.8%**.
- Evaluated models including Naive Bayes and LSTM to select the best performing model in terms of speed and accuracy.

AI Traffic Signal Optimizer | Python, Pygame

August 2024

- Developed a realistic **traffic signal simulation** using Pygame, modeling dynamic vehicle interactions and signal operations.
- Integrated real-time vehicle detection to monitor traffic density on each road segment.
- Designed a custom algorithm to adjust signal timings based on vehicle density, optimizing traffic flow.

Achievements

- **Expert** on *Codeforces* 
- **5-star** on *CodeChef*. 
- Team ranked **78th** in the *ICPC Amritapuri Regionals 2024*.
- Secured **1st** place in *Code Canvas*, a web development competition at VJTI.
- Secured **1st** place in *Tuning Test*, a Machine Learning competition at VJTI.
- Secured **2nd** place in *Bid by Bit*, a competitive programming competition at KJSCE.

Technical Skills

Languages: Python, C++, JavaScript, TypeScript, SQL

Technologies & Frameworks: MERN Stack, Next.js, Tailwind CSS, PyTorch

Areas of Expertise: Web Development, Competitive Programming, Machine Learning

Relevant Coursework

- Data Structures
- Algorithms
- Deep Learning
- Web Development
- Computer Architecture