

ABHISHEK PAL

Mumbai, Maharashtra

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EDUCATION

Vidyalankar Institute of Technology

B.Tech - **CGPA - 9.71**

2022 - 2026

Mumbai, India

SMT. CHM College

HSC - Computer Science - **Percentage - 76.5%**

2020 - 2022

Thane, India

King Lord English High School

SSC - **Percentage - 88.60%**

2020

Thane, India

COURSEWORK / SKILLS

- Data Structures & Algorithms
- Machine Learning
- PyTorch
- Web Development
- Artificial Intelligence
- LLMs
- Computer Vision
- Audio processing

PROJECTS

DraupadiAI [↗](#) | [Python](#), [Librosa](#), [Pyaudio](#), [Tensorflow](#), [ReactJS](#)

10 2024

- About project **Draupadi-AI**
 - * An AI-based mobile application enhancing women's safety through real-time voice recognition and anomaly detection.
 - * Detects distress signals like screams or predefined keywords (e.g., "help me") and triggers alerts.
 - * Sends emergency alerts with location and audio clip to the Women Protection Community.
 - * Includes features like 'I Am Safe' mode, hotspot crime location mapping, and LLaMA-based chatbot for crisis support.
 - * Uses advanced ML techniques for continuous audio surveillance without interruption.
 - * Integrates gesture recognition for additional emergency detection.
- [Demo video here](#)

DSALizer [↗](#) | [HTML](#), [CSS](#), [ReactJS](#)

11 2024

- DSALizer, an interactive visualization tool for sorting and searching algorithms, aimed at enhancing algorithm comprehension through real-time visualizations. Integrated a range of algorithms, with dynamic user input and adjustable parameters. Designed an intuitive interface that supports hands-on learning and promotes a deeper understanding of algorithmic performance and complexity analysis.

EduPlanner [↗](#) | [HTML](#) [CSS](#) [FLASK](#) [JS](#)

04 2024

- About project **EduPlanner**
 - * Developed a user-friendly timetable management system for college students.
 - * Allows students to enroll in courses based on their preferred faculty and time slots.
 - * Enables flexible scheduling and personalized course management.
 - * Streamlines faculty allocation and prevents scheduling conflicts.
 - * Enhances student experience by offering a customizable academic schedule.

ACHIEVEMENTS

- Ranked in the **Top 10%** of my college for academic excellence.
- Secured a place in the **Top 32** at **Mumbai Hacks**, the world's largest GenAI hackathon, which set a **Guinness World Record**.

TECHNICAL SKILLS

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

Machine Learning & AI: PyTorch, TensorFlow, Computer Vision, Audio Processing (Librosa, PyAudio)

Developer Tools: VS Code, IntelliJ IDEA Ultimate

Technologies/Frameworks: Linux, Git, GitHub, ReactJS

EXTRACURRICULAR

Vrikshit Foundation

2024 – Present

Member

Mumbai

- Beach Clean , Planting Drive 

CERTIFICATIONS

- Machine Learning - Udemy
- Python for Data Science - XIE
- Java
- SQL