

YASH PARMAR

Wadala, Mumbai

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Education

Vidyalankar Institute of Technology, Mumbai

Bachelor of Technology in Computer Engineering

2024 – 2027

Mumbai, Maharashtra.

Relevant Coursework

- Data Structures
- Database Management
- Systems Programming
- Software Development
- Algorithms Analysis
- Artificial Intelligence
- Computer Architecture

Projects

EduAI - AI-Powered Learning Platform/ MERN Stack

February 2025

- Developed an AI-powered e-learning platform that personalizes education through interactive courses, assessments, and gamification features.
- Implemented AI-based learning paths, adaptive difficulty levels, and performance analytics to enhance user engagement.
- Designed a secure authentication system using JWT and Firebase for seamless user management.
- Ensured API security using Helmet, rate limiting, and role-based access control to protect user data.

LangSQL - AI-Powered SQL Assistant/ MERN Stack + Django

March 2025

- Developed an **AI-driven SQL assistant** that translates **natural language** into optimized **SQL queries**.
- Implemented **multi-tier architecture** with a **React frontend**, **Node.js backend** for query processing, and **Django backend** for AI-powered natural language understanding.
- Integrated **Firebase for real-time features**, **Redux Toolkit for state management**, and **Nivo charts for data visualization**.
- Led **code structuring**, API design, and database management for scalable and efficient performance.

AI Powered Chatbot / Python, Flask, NLP

March 2024

- Developed an AI-powered chatbot using Python and Flask to assist students with academic queries.
- Implemented Natural Language Processing (NLP) techniques to understand and respond to user inputs contextually.
- Designed an interactive user interface for seamless communication using Flask templates and Bootstrap.
- Optimized response accuracy by training the chatbot on a custom dataset and integrating with a backend database for dynamic responses.

Technical Skills

Languages/Frameworks: Python, Java, C, HTML/CSS, JavaScript, SQL, React.js, Express.js, Django, DRF

Developer Tools: VS Code, Eclipse, Google Cloud Platform, Android Studio, PyCharm

Technologies/Frameworks: Windows, Kali Linux, Django, React.js, Flask, TensorFlow, Node.js, Express.js, PyTorch

Extracurricular

Smart India Hackathon 2024

March 2024

Participant

National Level

- Collaborated with a team to develop Smart Classroom Management Software using MERN stack and Flask.
- Presented innovative solutions addressing real-world problems in education technology.

Quasar 3.0

Feb 2025

Finalist

National Level

- Collaborated with a team to develop an **AI-powered Learning Platform** using **React, Node.js, Django, MongoDB, and TensorFlow.js**
- Designed and implemented **intelligent tutoring features**, including **personalized learning recommendations** and **real-time**

feedback mechanisms.

Inspiron 4.0

Finalist

March 2025

National Level

- Led the development of **LangSQL**, an **AI-powered SQL assistant** that translates natural language into optimized SQL queries.
- Built a **full-stack application** using **React, Node.js, Django, MongoDB, and TensorFlow.js** with a **three-tier architecture**.
- Designed an intuitive UI with **Redux Toolkit for state management, Firebase for real-time features, and TailwindCSS for responsive styling**.

Open-Source Contributions

Contributor

Ongoing

- Actively contributed to open-source projects, enhancing features and fixing issues across repositories.
- I am engaged with the developer community to review and improve code quality in collaborative projects.