

AHMED AZAAN KHAN

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EDUCATION

Vellore Institute Of Technology

Oct 2022 – Oct 2026

B.Tech CSE - 8.20 -

Bhopal

Central Academy

2017 – 2018

CBSE Board - Class X - **Percentage - 89.6%**

Lucknow

Central Academy

2019 – 2020

CBSE Board - Class XII - **Percentage - 80.8%**

Lucknow

COURSEWORK

- Data Structures & Algorithms
- Operating Systems
- Computer Networks
- Database Management System (DBMS)
- Ethical Hacking
- OOPS Concept
- Web Development

PROJECTS

ChatBot Using OpenAI 🔗 | [HTML5](#), [CSS](#), [Javascript](#), [React](#), [Node.js](#), [MongoDB](#)

May 2024

- Developed a full-stack, real-time chat application using the **MERN stack** (MongoDB, Express.js, React, Node.js).
- Integrated the **OpenAI API** to provide intelligent, human-like responses, creating a seamless user-AI interaction experience .
- Engineered a **RESTful API** and designed a **MongoDB schema** to efficiently store and retrieve user conversation histories, ensuring data persistence .
- Implemented **JWT-based user authentication** to secure endpoints and provide personalized chat histories for each user available for 7 days .
- Enhanced user experience by implementing real-time **streaming of AI responses**, creating a dynamic typewriter effect .
- Optimized API performance to achieve an average response latency of less than **500ms** and handled over **1,000+ requests** during testing.

PureUP 🔗 | [HTML](#), [CSS](#), [ReactJs](#), [Nodejs](#), [MongoDB](#)

October 2024

- Developed a responsive front-end application using **React.js**, **HTML5**, and **CSS** to help users improve indoor air quality by recommending air-purifying plants .
- Used **Machine Learning** to suggest plants based on soil metrics with an accuracy of up to **90%**.
- Promotes plants like English Ivy that aggressively that can remove **78** percent airborne mold in 24 hrs
- Integrated third-party APIs to fetch real-time environmental data, including local **Air Quality Index (AQI)** for gases like Nitrogen, PM 2.5 and PM 10 .
- Implemented a user-friendly interface for browsing a database of over 100 air-purifying plants with affiliate links for a **seamless purchasing experience**.

TECHNICAL SKILLS

Languages: Python, C++, JavaScript

Developer Tools: VS Code, Github, IntelliJ

Technologies/Frameworks: Linux, GitHub, ReactJS, , NextJS, NodeJS, ExpressJS

EXTRACURRICULAR

- Volunteer in Annual Technical Fest for smooth functioning of various club events.

CERTIFICATIONS

- The Bits & Bytes Of Computer Networking - Coursera
- Blockchain - IBM-Droit
- MERN Fullstack- Ethnus