AHMED AZAAN KHAN

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EDUCATION

Vellore Institute Of Technology **Oct 2022 – Oct 2026**
*B.Tech CSE - **8.22*** *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
- Cyber Threat Analysis
- 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 availabe 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 can aggressively remove **78** percent airborne mold in around 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++,HTML5,CSS, JavaScript
Developer Tools: VS Code, Github,IntelliJ
Technologies/Frameworks: Linux, GitHub, ReactJS, NodeJS, ExpressJS,MongoDB

EXTRACURRICULAR

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

Achievements

- Secured a position among top 10 finalists of Societe Generale Hackathon

CERTIFICATIONS

- Oracle Cloud Infrastructure Certified Foundations Associate(1Z0-1085-25)
- Oracle Cloud Infrastructure 2025 Generative AI Professional (1Z0-1127-25)