ARNAV SURANA

Roll No.: 2311201145
Bachelor of Technology
Computer Science and Engineering
Maulana Azad National Institute Of Technology, Bhopal

+91-9399707667
arnav.surana051175@gmail.com
GitHub Profile
LinkedIn Profile

Education

•Maulana Azad National Institute Of Technology, Bhopal *2023-2027*
Bachelor of Technology in Computer Science and Engineering CGPA: 9.33

•Vedaanta The Global School, Indore *2022-2023*
12th - Central Board of Secondary Education,Madhya Pradesh Percentage:94.6

•Advanced Academy, Indore *2020-2021*
10th - Central Board of Secondary Education,Madhya Pradesh Percentage:94.6

Projects

•Appwrite Based Full Stack Website *2025*

The ScholarBridge project implements a Retrieval-Augmented Generation (RAG) system that allows users to query PDF books using natural language. This system addresses the challenge of extracting specific information from large documents by combining vector embeddings for semantic search with Large Language Model (LLM) capabilities for generating contextually relevant answers.
Integrated Appwrite for Login authentication , user data management , buckets for images and pdf storage ,also indexing for fast real time queries

– Tools & technologies used: Appwrite, PineCone, Python, React, HTML, CSS, JavaScript

•Smart India Hackathon – Frontend Website for AI/ML Model (PS-1782) *December 2024*

Developed a frontend website for the SLIFTEX AI/ML model designed to detect similarities between existing newspaper titles and newly entered titles.
Integrated LangChain technology to enable accurate similarity detection between titles using Natural Language Processing (NLP).
Utilized Vite for fast development and optimized performance, while employing Postman for testing API endpoints and ensuring seamless integration.
Team: Arnav Surana, Debanjan Rakshit, Saksham Chopra, Hozefa Travadi, Parth Arora, Dhanvi Shah

– Tools & technologies used: React, HTML, CSS, JavaScript, Postman, FastApi, NodeJs, MongoDB Atlas

•MERN Stack Website for Crop Disease Detection *2025*

Developed a crop disease detection website using the MERN Stack (MongoDB, Express, React, Node.js) with an AI/ML backend that helps farmers identify crop diseases.
Integrated a LangChain AI/ML model to process images and symptoms provided by users, accurately diagnosing the disease affecting the crops.
Team: Arnav Surana,Debanjan Rakshit,Hozefa Travadi,Saksham Chopra,Harshita Gautam,Tanisha Gangrade

– Tools & technologies used: MongoDB Atlas, Express.js, React, Node.js
– Utilized WebSockets for real-time communication between the frontend and backend, ensuring instant updates and responses for disease diagnosis.

Technical Skills and Interests

Languages:C/C++
Developer Tools:HTML, CSS, JavaScript
Frameworks:ReactJs,NodeJs,ExpressJs
Databases Services:Appwrite
Databases:MySQL,MongoDB
Soft Skills:Effective Communication, Teamwork, Problem-Solving, Critical Thinking, Time Management, Leadership
Coursework: Database Management System, Object Oriented Programming
Areas of Interest:Web Development, Competitive Programming, Data structures and Algorithm

Achievements

•Winner, Smart India Hackathon 2024 (PS-1782): Secured 1st place at SIH-2024

•IICPC on CodeChef: Secured Global Rank 1132 out of 40,000+ participants

•CodeForces: Maximum Rating – 1271 | Pupil | ID: arnav.surana051175

•CodeChef: Maximum Rating – 1647 | 3 Star | Global Rank 14592 | ID: arnavsurana

•DSA/CP Proficiency: Solved over 500 DSA/CP Problems across platforms such as GFG, LeetCode, CodeChef, and Codeforces