

Abhinav Jain

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Education

VELLORE INSTITUTE OF TECHNOLOGY , Bhopal

2022-2026

Bachelor of Technology in Computer Science and Engineering

CGPA:8.54/10

Relevant Coursework: Data Structures and Algorithms , Operating Systems, Computer Networks, Databases, Object Oriented Programming, Discrete Mathematics, Parallel and Distributed Computing

Experience

HacktoberFest 2024

Oct-2024

Full Stack Developer

- Completed HacktoberFest 2024 and was recognized as the top contributor by contributing to ACM_JEC repositories. Merged 6+ pull requests, significantly enhancing project functionality and code maintainability, while reducing reported bugs through team collaboration.
- Built the front-end architecture for complex web applications using ReactJS, implementing responsive, pixel-perfect designs that improved mobile user engagement.
- Optimized performance and modularity by leveraging React's component-based architecture, leading to reduced component load times and improving code reusability across the application.

Projects

Global Energy Production Analysis Dashboard

Tech Stack: Power Bi, Power Query, Excel

LIVE

- Developed an end-to-end business intelligence solution to analyze electricity production trends from 2010-2024 across the top 5 energy-producing countries.
- Performed data cleaning and transformation using Power Query to ensure data accuracy and prepare a robust dataset for analysis.
- Designed and built a dynamic, multi-page Power BI dashboard featuring a range of visualizations (bar, pie, line charts) to provide both high-level summaries and granular time-series insights.
- Leveraged Power BI's AI-driven Key Influencers visual to uncover statistically significant factors, revealing that Coal remains the dominant source (at 50.4%) while renewable sources like Solar and Wind show the most significant upward trend.

NewsSailor-Full Stack News website

LIVE

- A news aggregation platform which handles end-to-end automated news processing 2,400+ articles daily across 10+ categories via scheduled backend jobs.
- Used Newsdata.io API for efficient news content management, across various categories which is integrated to scalable backend infrastructure with Node.js and Express.js, incorporating real-time news fetching .
- Wrote duplicate detection function which filters out duplicate news which is already present on database, reducing redundant data storage.
- Composed and optimized database schema and indexing strategies for efficient news article storage and retrieval in firebase firestore.

Well Path- Full Stack Health Tracker

Tech Stack: React, JavaScript, Node.js, Express, MongoDB, Git, Axios,

LIVE

- A full-stack AI-powered health tracking system to address technological gaps in over 54,000 Indian hospitals, where 80% of public facilities lack adequate digital infrastructure.
- Used **firebase authentication** to allow only registered patients of a particular hospital to check upon their reports and monitor their health.
- Patients can schedule their appointments and doctors get automated patient reminders using **node-cron**, which will result in more timely follow-ups.

AI Cstomer Support Bot

Tech Stack: Python, PyMuPDF, fitz, Scikit-learn, TF-IDF, Cosine Similarity

- A simulation of customer support interactions, using AI to handle frequently asked questions (FAQs) and manage escalation scenarios when a query is not resolved.
- Developed a backend REST API and integrated Gemini LLM to generate context-aware responses, summarize conversations, and manage sessions using a database.
- It has contextual memory system to retain previous conversation details, ensuring conversational accuracy.

Skills and Technologies

Programming Languages: Python, SQL, Java, JavaScript, TypeScript, HTML5, CSS

Technologies/Frameworks: Pandas, Matplotlib, Scikit-learn, React, Node JS, Express, Next JS,

Developer Tools: Git, GitHub, Docker, Vercel, Firebase, MongoDB, PostgreSQL, Power Bi