

# Dhiman Majumdar

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## EDUCATION

### Pranveer Singh Institute of Technology

Bachelor of Technology in Computer Science

Kanpur, Uttar Pradesh

Dec. 2022 – Jun. 2026

### Ganga International School

10th Grade: 90.6% 12th Grade: 85%

New Delhi, Delhi

## SKILLS

**Languages:** C++, JavaScript (ES6+), Python, SQL, HTML/CSS

**Frontend Technologies:** React.js, Redux, Tailwind CSS, Streamlit

**Backend Technologies:** Node.js, Express.js, FastAPI, WebSockets, REST APIs

**Databases:** MongoDB, Firebase, Supabase, QdrantDB, Neo4j

**AI Tools:** OpenAI APIs, Google Gemini AI, Hugging Face, Ollama, LangGraph, LangChain, Prompt Engineering

**Infrastructure / Cloud:** AWS EC2, Docker

## PROJECTS

### DevFusion | React, Node.js, Express.js, MongoDB, Tailwind CSS, WebSockets, AWS EC2, Amazon SES, Cron Jobs

- Developed a full-stack developer-matching platform with secure **JWT authentication** and a responsive UI using **Tailwind CSS**.
- Integrated real-time chat functionality using **WebSockets** and **socket.io**.
- Implemented email notifications and communication features using **Amazon Simple Email Service (SES)**.
- Automated background tasks and system maintenance with scheduled **Cron Jobs**.
- Deployed on **AWS EC2** with Nginx reverse proxy for scalable, production-ready hosting.
- Key Achievement:** Successfully onboarded 50+ developers on the platform, driving engagement and growth.

### EmPath AI — AI Mental Health Therapist | FastAPI, Streamlit, Ollama (MedGemma), GPT-4, Twilio, ngrok

- Built an AI-powered mental health support system delivering empathetic, context-aware conversations using **MedGemma (Ollama)** and **GPT-4 tool-agent reasoning**.
- Implemented a safety layer with **intent analysis**, distress detection, and automated **Twilio emergency call escalation** for high-risk situations.
- Integrated **WhatsApp chat interface** via Twilio Webhooks and **ngrok** tunneling for real-time, private AI therapy conversations.
- Designed a modular backend using **FastAPI** with agent tools for location lookup, crisis routing, and professional support suggestions.

### Speak2SQL - AI DATA ANALYST | Python, Streamlit, LangChain, Llama 3 (Ollama), SQLite, Matplotlib

- Developed an AI-powered **Text-to-SQL** system that converts natural language queries into executable SQL using **LangChain** and **Llama 3 running locally via Ollama**.
- Executed generated SQL on a live **SQLite** database and produced **auto-generated charts** (bar/line/pie) using Matplotlib with CSV export support.

## ACHIEVEMENTS

- Solved over **600 problems** on LeetCode across various data structures with consistent Contest Rating of 1600+
- Built and deployed major **2 applications** with **70+ users**.
- Achieved **All India Rank 10,250** out of 240,000+ in **NCAT-25**, with an **84.4 percentile** in the CS 2026 batch.

## CERTIFICATIONS

- Namaste JavaScript** – Akshay Saini (NamasteDev, Feb 2024)
- Namaste React** – Akshay Saini (NamasteDev, Aug 2024)
- Namaste Node.js** – Akshay Saini (NamasteDev, Feb 2025)
- Full Stack Generative and Agentic AI** – Hitesh Choudhary and Piyush Garg (Udemy, Oct 2025)
- Object Oriented Programming** – Raj Vikramaditya (takeUforward, Sep 2025)