

JAHNVI SAXENA

Software Developer | Full Stack Developer | Machine Learning Engineer
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Education

Vellore Institute of Technology

Bachelor of Technology in Computer Science and Engineering / CGPA: 8.31/10

Oct. 2022 – May 2026

India

Technical Skills

Programming Languages: Python, JavaScript, Java

Databases: MongoDB, MySQL

Tools & Technologies: Git/GitHub, Postman

Technical Projects

CodeGuard AI | Python, Machine Learning, Flask, React.js

GitHub

- Architected an AI-powered code analysis platform for vulnerability detection and performance analysis, yielding intelligent insights for secure software development.
- Built intelligent code review automation with Natural Language Processing (NLP) capabilities to identify 150+ security flaws and code quality issues using custom pattern matching algorithms.
- Developed a Flask API backend to efficiently handle code submissions and integrate the ML model, paired with a dynamic React.js frontend for visualization of analysis reports.

MindMate - Adaptive AI Study Buddy | Next.js, TypeScript, Tailwind CSS, Google Gemini API

GitHub

- Designed and developed an AI-powered personalized learning assistant using Next.js that adapts to user-uploaded study materials and learning style preferences.
- Implemented AI-generated study plans, interactive quiz mode, and a real-time AI tutor using the Google Gemini API for intelligent content understanding.
- Built a premium glassmorphism UI with smooth animations and responsive layouts using Tailwind CSS, delivering a modern high-performance user experience.
- Integrated local storage persistence for automatic saving of study materials, learning preferences, and progress tracking.

SereNova - Mental Health Chatbot | Python, NLP, Sentiment Analysis, TensorFlow

GitHub

- Created an AI-driven mental health support platform utilizing TensorFlow and NLP for sophisticated conversational interface design.
- Implemented real-time Sentiment Analysis and Natural Language Understanding (NLU) to assess user emotional state and provide tailored cognitive behavioral therapy techniques.
- Integrated a crisis detection mechanism with high-confidence trigger phrases, ensuring immediate escalation to relevant external resources for user safety.

Achievements & Certifications

Competitive Programming

2025

LeetCode Contest Rating: 1,492 / Solved 300+ Data Structure and Algorithm Problems

IBM DevOps

2024

Completed comprehensive training in CI/CD, Docker, Kubernetes, and Cloud Computing

SmartBridge MERN Stack Development Certification

2024

Proficiency in building full-stack applications using MongoDB, Express, React, and Node.js

Additional Information

Languages: English (Fluent), Hindi (Native)

Interests: Open Source Contribution, Hackathons, Competitive Programming, Technology Innovation