

Mayank

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Education

Vellore Institute of Technology, Chennai <i>B.Tech in CSE CORE, CGPA: 8.71 (Semester 4)</i>	2023–2027
Kendriya Vidyalaya, Chandigarh <i>Class 12, Percentage: 90.2%</i>	2021–2023
Kendriya Vidyalaya, Chandigarh <i>Class 10, Percentage: 93.4%</i>	2019–2021

Research Interests

Primary:: Artificial Intelligence, Machine Learning, CyberSecurity
Secondary:: Natural Language Processing, AI Ethics, Web Development

Experience

VIT Chennai <i>Hack-N-Droid, Participated in a open world problems solving competition organized by the Android Club.</i>	2025
VIT Chennai <i>Research- Internship, Doing a research internship under vit for the topic Intelligent Surveillance for Abnormal Crowd Behaviors.</i>	2025

Technical Skills

Programming: Python, C++, Java, JavaScript, ReactJS
Web Development: HTML, CSS, JavaScript, ReactJS, Web APIs
Generative AI: LLMs, Prompt Engineering
AI/ML: Generative AI, Data Structures and Algorithms, Machine Learning

Projects

StudySphere: Full-stack Web Development project providing students with notes, streak tracker, to-do list, and roadmaps.
Firewall Simulator: Computer Networks project simulating packet filtering and rule-based traffic control.
Delhi Electricity Consumption: Data Analysis project using web scraping and visualization to predict power usage trends.
Smart India Hackathon Project: Frontend development using HTML, CSS, and JS for real-time power demand visualization.
MackBot: AI Assistant using LangChain and LangGraph for document retrieval and conversational abilities.
Lawyer ChatBot: RAG-based chatbot using vector databases for legal document Q&A.
Medical ChatBot: AI chatbot using ElevenLabs and Google Text-to-Speech for healthcare support and advice.
Network Backup System: Computer Networks project implementing a reliable system for network-based data backup.
Efficient Banking System: Python-based software for secure, transactional banking with core functionalities.
Feature Matching System: Computer Vision project using KD-Tree and FLANN for fast and accurate image feature matching.

Certifications

Generative AI: Certified in Generative AI using IBM Watsonx AI.
Hack-N-Droid: Creating of APP for education using flutter.
Generative AI Workshop: Workshop on AI model development.
Delloite Data Analyst Job Simulation: Certified in using Data Analytics tools.
Spoken Tutorial: Certified by IIT Bombay in Python, C, and C++.
Web Dev Workshop: Hands on session on HTML, CSS and JS.