Hiranya Patil

Sitare University with SRMU, Lucknow, India
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Education

B.Tech, Computer Science, Sitare University *Course Completion - May'27*
Relevant Coursework: Python Programming, Java Programming, Object Oriented Programming Concepts, Data Structures and Algorithms, Artificial Intelligence and Machine Learning, Database Management System.
CGPA: 7.59

Technical Skills

Programming Languages: Python, Java, JavaScript

Web Technologies: HTML, Flask, FastAPI, React (with TypeScript), TailwindCSS, Django

Database Management: MongoDB, SQL

Tools and Technologies: Linux, NumPy, Pandas, Matplotlib, Git, GitHub, MS Excel, BeautifulSoup, Selenium, Mistral 7B SBERT, FAISS Indexing, Transformers, Figma, OpenCV

Projects

UTMT Learning Platform

Developed a mentorship program and placement assistance platform offering CV evaluation, job matching, and curated learning modules for underprivileged engineering students.
Tech: *HTML, CSS, JavaScript, Flask, Bootstrap, Tailwind.*
Live | LinkedIn

Summer Hackathon – IYD 2025

Developed a fact-checking system using 18,229 scraped Valmiki Ramayana verses. Implemented semantic search (SBERT + FAISS) and integrated offline reasoning with Mistral 7B for efficient statement verification.
Tech: *Python, SBERT, FAISS, Mistral 7B, NLP.*

GuideCode-AI

Built an AI coding mentor guiding students through problems without giving full solutions, featuring hints, strategy, edge case analysis, and optional code review.
Tech: *React.js, TypeScript, Node.js, Express.js, REST APIs, AI/NLP integration.*

Mindsahayak

Built a multilingual AI chatbot to support students mental well-being through emotion detection, self help tools and guided wellness resources, with optional escalation to human counselors.
Tech: *Python, NLP, Sentiment Analysis, Chatbot Framework, Multilingual Processing*

Sudoku-Solver

Built a Sudoku solver using Python and backtracking, featuring both a GUI-based interactive interface and a text-mode solver. Implemented real-time visualization of the algorithm, optimizing constraint checks for efficient puzzle solving.
Tech: *Python, Pygame, Backtracking Algorithm.*

Virtual Mouse Using OpenCV

Developed a hand gesture–controlled virtual mouse using OpenCV, enabling real-time cursor movement and click actions through webcam-based computer vision.
Tech: *Python, OpenCV, NumPy, pynput.*

Scholarships

75% B.Tech CS Scholarship, Sitare Foundation *Aug'25-Present*