

Akshit Verma

Software Developer

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PROFILE SUMMARY

Final year Computer Science undergraduate with hands-on experience in Java, Python, and full-stack development across MERN and AI Agents. Skilled in designing scalable systems, implementing clean architectures, and applying DSA concepts to real-world problems. Strong understanding of SDLC and agile workflows, with a proven ability to collaborate, troubleshoot, and deliver high-quality software solutions.

EDUCATION

Vellore Institute of Technology, Andhra Pradesh

Bachelor of Technology in Computer Science and Engineering

2022 – 2026

CGPA: 7.46

- Completed coursework in Data Structures, Operating Systems, Computer Networks, Database Management Systems, and Design Analysis & Algorithms.

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, HTML, CSS

Frameworks & Tools: React, Node.js, Express.js, Django, MongoDB, N8N

Developer Tools: Git, GitHub, VS Code, IntelliJ IDEA

Concepts: SDLC, Agile Methodology, Problem Solving

PROJECTS

Smart Energy Grid | Python, Numpy, Neural Network

November 2025

- Built an energy forecasting system using **ARIMA**, **MLP**, and **ANFIS** on year-long grid data.
- Optimized **ANFIS**, cutting **MAPE** by **9.64% (hourly)** & **12.37% (day-ahead)**; **MLP** achieved **3.80% MAPE**.
- Achieved **3.80% MAPE** (MLP Day-Ahead) & **5.34% MAPE** (ANFIS Hour-Ahead), meeting the **<5%** industry standard.

Knowledge-Based Search Engine | N8N, RAG, Google Drive Integration

October 2025

- Engineered a **Retrieval-Augmented Generation (RAG)** system using N8N to process user queries and retrieve relevant data from uploaded Google Drive documents.
- Integrated a **chatbot** interface that refines and augments retrieved information to deliver precise, context-aware responses.
- Improved response relevance by **30%** through RAG-based retrieval integrated into N8N workflows.

AI Timetable Generator | React, Node.js, Gemini API

July 2025

- Developed an AI-powered timetable generator integrated with the **Gemini API** to automate scheduling and adjustments.
- Designed an interactive **chatbot** feature that dynamically modifies timetables, considering teacher and course constraints.
- Reduced manual scheduling effort by **40%** and cut timetable-conflict errors by **25%** through automated generation and rule-based constraints.

Sudoku Solver | Java, JavaFX

June 2025

- Built a GUI-based Sudoku Solver using JavaFX and an optimized **backtracking algorithm** for efficient puzzle solving.
- Created an intuitive visual interface enabling dynamic user interaction and real-time puzzle input.

CERTIFICATIONS

Oracle Cloud Infrastructure 2025 Certified Generative AI Professional

Problem Solvers: Mastering **Data Structures and Algorithms**

Full-Stack Development with **MERN**

Future of Work **Hackathon** by Kroolo x TGB