

# Nishant Verma

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LinkedIn — GitHub — Portfolio

## Education

- **Indian Institute of Technology, Bhilai**  
B.Tech in Data Science and Artificial Intelligence Oct 2022 - Present
- **Seventh Day Adventist Senior Secondary School, Lucknow**  
High School April 2018 - March 2019  
Intermediate School April 2020 - March 2021

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## Experience

- Software Development Intern** May 2024 - June 2024 — IIT Bhilai
- Engineered a Flutter-based attendance application for over 800 students.
  - Integrated a Made-in-India USB token for secure login, ID card data capture, and fraud prevention.
  - Utilized NFC technology and NDK for seamless interaction with the USB token.

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## Projects

- **CodePilot (VS Code Extension)**
  - Developed with TypeScript, HTML, CSS; enabled coding help via Ollama (local LLM).
  - Designed an intuitive interface to boost developer efficiency in VS Code.
  - Ensured privacy and performance via local AI execution.GitHub Link
- **NPM Package: Text Editor**
  - Developed a pre-configured text editor based on the TipTap editor.
  - Implemented core functionalities using TypeScript and customized the layout with CSS.GitHub Link
- **Agentic RAG with Pathway (InterIIT 13 HP3 Statement)**
  - Built a web-based AI assistant supporting chat and voice queries.
  - Backend: Flask + Socket.IO for document retrieval, file parsing, and live responses.
  - Frontend: React + markdown support + speech-to-text interaction.GitHub Link
- **SAR Image Colorization**
  - Implemented a research paper on SAR Image Colorization for the ML project.
  - Designed the whole architecture and trained the model on almost 6000 images.
  - Achieved impressive results on PSNR and SSIM metrics.GitHub Link
- **Quiz App in Flutter**
  - Developed a comprehensive quiz app using Flutter, Node.js, and a React.js admin panel.
  - Included subject-wise, JEE, and NEET-based tests with time-bound limits.
  - Integrated Google OAuth and AWS for authentication and storage.GitHub Link
- **Retrieval Augmented Generation using LLM**
  - Built a document chat interface using HuggingFace API, LangChain, and Streamlit in Python.
  - Allowed users to chat with uploaded documents or web pages.GitHub Link
- **Telegram Bot**
  - Created a Node.js server using Google Gemini API to respond to user queries on Telegram.
  - Provided accurate and concise answers.GitHub Link

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## Skills

- **Programming Languages:** JavaScript, C, Python, Dart
- **Tools & Technologies:** HTML, CSS, React.js, Node.js, Express.js, Tailwind, Android Studio, AWS, HuggingFace, LangChain, Scikit-learn, Colab, Flutter, GCP, Firebase, Git, GitHub, Linux
- **Databases:** MongoDB, MySQL
- **Other Skills:** Communication, Problem-Solving, Debugging, Teamwork

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## Certifications

- Completed Basics of Ethical Hacking Course on Udemy