

# Shubh Gupta

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## SKILLS

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**Programming Languages:** Python, C, C++, Java, SQL  
**Web Development:** HTML, CSS, JavaScript, Django, Rest APIs  
**Artificial Intelligence:** Machine Learning, Deep Learning, NLP, Computer Vision  
**Frameworks & Tools:** TensorFlow, PyTorch, Keras, OpenCV, GitHub, Google Colab, VS Code, IntelliJ

## EXPERIENCE

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<b>AI Intern – Information Technology Department</b> <i>MP Birla Group (Birla Corporation Limited)</i>	Satna, Madhya Pradesh <i>Oct 2025 – Dec 2025</i>
<ul style="list-style-type: none"><li>– Developed an AI-based OCR automation system to digitize handwritten and printed organizational forms.</li><li>– Implemented image preprocessing and OCR pipelines using Python, OpenCV, and Tesseract.</li><li>– Achieved <b>92% extraction accuracy</b> while reducing manual data-entry effort through automation.</li></ul>	

## EDUCATION

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<b>Vellore Institute of Technology</b> <i>Integrated M.Tech in Artificial Intelligence</i> CGPA: 8.77	Bhopal, Madhya Pradesh <i>Oct 2022 – May 2027</i>
<b>The Lovedale Sr. Sec. School</b> <i>12th, Mathematics</i> Percentage: 82	Satna, Madhya Pradesh <i>2021 – 2022</i>
<b>The Lovedale Sr. Sec. School</b> <i>10th</i> Percentage: 76	Satna, Madhya Pradesh <i>2019 – 2020</i>

## PROJECTS

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**Deep Image Steganography using Generative AI** | *Python, TensorFlow, PyTorch, OpenCV* | GitHub

- Designed GAN, VAE, and DDPM-based models to securely embed and recover images with minimal visual distortion.
- Built encoder-decoder and diffusion pipelines for high-fidelity image reconstruction.
- Improved robustness by **18%** using adversarial loss tuning and diffusion-based denoising.

**FaceGuard AI** | *FastAPI, YOLOv8, FaceNet, React.js, WebSockets* | GitHub

- Developed a real-time face recognition system with live video streaming using FastAPI and WebSockets.
- Implemented YOLOv8 and FaceNet with one-shot learning for accurate user identification.
- Reduced face-matching latency by **40%** using FAISS-based vector search and async inference.

**Verba – Document Q&A Assistant** | *Python, Django, RAG, Gemini, Groq* | GitHub | Live Demo

- Built a full-stack RAG-powered document Q&A system supporting PDF, DOCX, and TXT file uploads.
- Implemented document chunking, embedding with Gemini API, and vector storage using ChromaDB.
- Integrated Groq Llama for context-aware answer generation with session-based chat history and responsive UI.

## ACHIEVEMENTS

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- Semi-finalist in NASSCOM AI Hackathon
- Finalist in TATA Imagination Challenge 2025