

Shubh Gupta

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SKILLS

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

AI Intern – Information Technology Department

MP Birla Group (Birla Corporation Limited)

Satna, Madhya Pradesh

Oct 2025 – Dec 2025

- Developed an AI-based OCR automation system to digitize handwritten and printed organizational forms.
- Implemented image preprocessing and OCR pipelines using Python, OpenCV, and Tesseract.
- Achieved **92% extraction accuracy** while reducing manual data-entry effort through automation.

EDUCATION

Vellore Institute of Technology

Integrated M.Tech in Artificial Intelligence

Bhopal, Madhya Pradesh

Oct 2022 – May 2027

CGPA: 8.77

The Lovedale Sr. Sec. School

12th, Mathematics

Satna, Madhya Pradesh

2021 – 2022

Percentage: 82

The Lovedale Sr. Sec. School

10th

Satna, Madhya Pradesh

2019 – 2020

Percentage: 76

PROJECTS

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

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