

Shrinkhla Pandey

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EDUCATION

VIT Bhopal University

Integrated M.Tech in Artificial Intelligence — 8.92/10

Bhopal, MP

Aug. 2022 – May 2027

EXPERIENCE

Project Intern

Oct 2025 – Dec 2025

TATA Steel

On Site

- Built an automated identity-verification system using deep-learning facial embeddings, improving verification accuracy by 27%
- Designed a real-time end-to-end pipeline with FastAPI backend and React frontend, reducing response latency by 35%
- Optimized on-edge inference using YOLOv8 and cosine-similarity matching, cutting inference time from 480 ms to 120 ms

PROJECTS

SAR Image Colorization | Github

June 2025 – Ongoing

Python, PyTorch, U-Net, Docker

- Built a SAR-to-RGB deep learning model to enhance satellite image interpretability
- Optimized U-Net architecture, reducing MSE from 0.039 to 0.033 on 50K+ Sentinel image pairs
- Containerized the pipeline using Docker for scalable GPU-accelerated batch processing (1K+ images/day)

Deep Image Steganography | Github

June 2025 – Oct 2025

Python, TensorFlow, PyTorch, Stable Diffusion, DDPM, OpenCV

- Engineered a hybrid DDPM + Stable Diffusion steganography framework for secure high-capacity data embedding
- Achieved 99.82% SSIM while reducing steganalysis detection accuracy by 87%
- Automated evaluation and benchmarking over 10,000+ images using a reproducible testing pipeline

Conversational AI Chatbot | Github

May 2025 – June 2025

Python, Gradio, Transformers (HuggingFace), PyTorch

- Developed a context-aware conversational AI system using LLaMA 3.2-1B, achieving ~95% conversational coherence
- Implemented embedding-based memory and sentiment analysis (DistilBERT) to improve response relevance with 91% precision
- Built a real-time interactive web interface using Gradio and optimized inference pipelines, reducing latency by 27%

TECHNICAL SKILLS

Languages: Java, Python, C++, SQL (Postgres)

Frameworks, Libraries: TensorFlow, PyTorch, NumPy, Pandas, Scikit-learn, OpenCV, MLflow

ML, CV: Deep Learning, CNNs, YOLOv8, Embedding Models, Generative AI, NLP

Developer Tools & Cloud : Git/Github, VS Code, Jupyter Notebook, Figma, Docker, AWS, Google Cloud Platform

EXTRACURRICULARS & ACHIEVEMENTS

Semifinalist — NASSCOM Hackathon (Agentic AI Automation)

- Selected among the **Top 50 teams out of 1,200+ teams nationwide**
- Developed an **agentic AI-based call automation system** with autonomous intent detection and decision-making

Finalist — Smart India Hackathon (SIH) 2023

- Selected as an **internal finalist** through institute-level evaluation
- Built a **machine learning-based mental health prediction system** for early risk detection and intervention