Shrinkhla Pandey

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Education

VIT Bhopal University   *Oct 2022 – Present*
Integrated M.Tech in Artificial Intelligence   *CGPA: 8.91*

Technical Skills

- **Core Skills:** Machine Learning, Deep Learning, NLP, Object Detection, Emotion Recognition, Chatbot Development, Model Integration, API Development
- **Languages:** Python, C++, HTML5, CSS3, JavaScript, SQL, Java, LaTeX
- **Tools & Frameworks:** Hugging Face, Transformers, OpenCV, LangChain, TensorFlow, PyTorch, Flask, Gradio, GitHub, VS Code, Figma
- **Databases:** Firebase, SQLite

Projects

Image Steganography using Generative AI   *Feb 2025 – Apr 2025*
Python, DDPM, Stable Diffusion, Deep Learning

- Built a deep image steganography system leveraging DDPM and Stable Diffusion for secure data embedding.
- Achieved high fidelity with **99.82% SSIM** and **0.4282 MSE**, ensuring imperceptible quality loss in steganographed images.
- Applied diffusion-based generative modeling and neural architectures to optimize information concealment.

Conversational Chatbot   *Apr 2025 – June 2025*
LLaMA 3, Hugging Face, ElevenLabs, Python, Gradio, Emotion Detection, NLP

- Built a conversational AI assistant capable of real-time speech interaction and contextual memory retention.
- Integrated **LLaMA 3.2-1B** for language understanding and **DistilBERT** for emotion detection using Hugging Face.
- Implemented **Speech-to-Text (STT)**, **Text-to-Speech (TTS)** via ElevenLabs, and session tracking using User ID.
- Deployed the chatbot through a user-friendly **Gradio interface** supporting voice input/output.

Experience

Product Engineering Intern – Lenixvision Pvt. Ltd   *Mar 2025 – Jun 2025*

- Developed an AI-powered mobile application to assist visually and hearing-impaired users.
- Designed and integrated image and speech recognition modules for real-time interaction.
- Collaborated with engineers on accessibility-focused application design.
- Contributed to the overall product architecture and feature implementation strategy.

Extra Curriculars and Achievements

Finalist – Smart India Hackathon 2023 (Internal Hackathon)

- Developed a machine learning model to assess mental well-being using survey and behavioral data.
- Built a real-time screening interface in Streamlit for early prediction.

English Literary Association – Core Member (Organizing)   *Jun 2023 – Aug 2024*

- Planned and organized literary events, handled event promotions and inter-department coordination.
- Hosted a flagship event with 100+ attendees, demonstrating leadership and public speaking skills.

Eureka Club (R&D Based Club) – Core Member (PR & Outreach)   *Aug 2023 – Aug 2024*

- Connected with IT professionals and researchers worldwide to organize speaker sessions.
- Led a 6-member outreach team for an event with 200+ participants.