

HIMANSHU GANGWAR

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[in Himanshu Gangwar](#) | [zenitsu0509](#) | [Portfolio](#)

Baheri, UttarPradesh - 243201, India

EXPERIENCE

- **Whistle AI** March 2024 – July 2024
AI/ASR Intern California (Remote)
 - Developed and optimized Meta's Automatic Speech Recognition (ASR) models, improving transcription accuracy across multiple languages and acoustic environments
 - Engineered comprehensive data preprocessing pipelines and annotation workflows for large-scale ASR training datasets, ensuring high-quality labeled speech data for model development
 - Researched and benchmarked cutting-edge speech recognition architectures including transformer-based models, conducting comparative analysis to identify performance improvements and deployment feasibility

PROJECTS

- **Arya Bhatt Hostel AI Agent** [🔗]
Tools: Streamlit, LangChain, ChatGrok API, Pinecone
 - Built an AI agent for Arya Bhatt Hostel using ReAct framework, capable of handling queries and automating tasks.
 - Used Groq for fast LLM inference, Pinecone for vector search, and Sentence-Transformers for semantic retrieval.
 - Enabled features like mess menu lookup, hostel photo retrieval, and multi-step complaint registration.
 - Deployed a responsive Streamlit interface with chat history and dynamic content display.
- **MEDGraphy: Graph RAG Drug Information App** [🔗]
Tools: Streamlit, Python, Neo4j, Groq, Sentence-Transformers
 - Developed an intelligent drug information application using a Graph RAG architecture to provide context-aware answers from a knowledge graph.
 - Engineered a Neo4j graph database to model and query complex relationships.
 - Integrated Groq API for high-speed LLM inference (Llama3-8B) and Sentence-Transformers for semantic vector search.
 - Deployed a responsive Streamlit interface featuring multiple query modes and an interactive graph visualization of the medical knowledge
- **Hand Written digit prediction Project** [🔗]
Tools: CNN, Python, MNIST, ViT, Google Colab
 - Developed a handwritten digit recognition system using the MNIST dataset with two distinct deep learning models: Convolutional Neural Network (CNN) and Vision Transformer (ViT).
 - Implemented and trained both models separately, comparing their performance in terms of accuracy and generalization.
 - Achieved over 98% accuracy with CNN and competitive results with ViT using PyTorch.
 - Deployed an interactive Streamlit web app enabling users to draw digits and view predictions from both models in real-time.

EDUCATION

- **Institute of Engineering and Technology** Sept 2023 – Sept 2027
B.Tech in Computer Science and Engineering (AI) Lucknow, India
 - CGPA: 7.9/10.00

TECHNICAL SKILLS

- **Languages:** Python, C++, C, Java
- **Web/Deployment:** Streamlit, HTML, Render, Vercel
- **Databases:** Pandas, Neo4j, MySQL, Pinecone, Faiss
- **Technology/Frameworks:** GitHub, Tensorflow, Scikit-learn

CERTIFICATIONS & ACHIEVEMENTS

- Prompt Design in Vertex AI (Skill Badge), Google Cloud — [View Credentials](#)
- Machine Learning Ops with Vertex AI, Google Cloud — [View Credentials](#)
- AI Agents in LangGraph, DeepLearning.AI — [View Credentials](#)
- Won Collage level hackathon
- Top 1% in Uttarakhand Board 2023(Class 12), Uttarakhand Board