ANKIT KUMAR

[Email Address--ankitsuperku] [GitHub Profile--ANKIT0017]

Professional Summary

Productive Deep Learning Engineer with a solid foundation in computer vision and natural language processing Currently pursuing a Bachelor's (Hons.) in Computer Science (Major) and Statistics (Minor) from the University of Delhi. Proven experience in developing advanced AI models for real-time applications and personalized solutions. Adept at leveraging deep learning frameworks to solve complex problems and enhance user experiences.

Education

Bachelor of Science (Hons.) in Computer Science

Bachelor of Statistics

University of Delhi | Expected Graduation: [2027]

Skills

Programming Languages:	Python, JavaScript, C++
Machine Learning Libraries:	TensorFlow, PyTorch, scikit-learn
Database Management:	MySQL
Backend Development:	Flask
Cloud Platforms:	AWS, Google Colab
Tools:	Git, Docker

Experience

Intern – Delhi Technological University (DTU)
Human Action Recognition (HAR)
June 2025 – Present

- Conducted low-light enhancement and recognition experiments with Vision Transformers (ViT) on ARID and ELLAR datasets.
- Implemented ActionCLIP multimodal fusion and fine-tuned ResNet-50 for UCF101, achieving 85% top-5 accuracy.
- Optimized CNN-based low-light pipelines, improving PSNR by ~3 dB under <10 lux conditions.

AI/ML Hackathon Participant – Yoga Vivek Group
Mar 2025 – Jun 2025 · Remote

- Built a custom scraper to extract ~19,000 Valmiki Ramayana shlokas, automating data ingestion across six kāṇḍas.
- Developed a RAG (Retrieval-Augmented Generation) pipeline for verse verification using semantic search and LLM-based fact-checking.
- Achieved 98% verification accuracy with sub-2 second latency using LangChain and PyTorch.

Smart India Hackathon Participant – Govt. of India
Sep 2024 – Jan 2025 · Remote

- Led the fine-tuning of a LLaMA-based model for a personalized career guidance platform.
- Deployed a production-ready API delivering high-accuracy career recommendations with 83% improved relevance.

Research Intern – PGDAV College, Delhi
Aug 2024 – Nov 2024 · On-site

Projects

1. Low-Light Image Enhancement & Human Action Recognition
Delhi Technological University (DTU)

- **Explored and benchmarked Vision Transformer (ViT) architectures on ARID and ELLAR datasets.**
- **Built and tested CNN/Transformer pipelines for both image enhancement and action recognition tasks.**
- **Integrated real-time performance optimization strategies for low-light environments.**

---

2. Real-Time Human Detection and Face Recognition Model

- **Developed an AI system for accurate identification and recognition of individuals in dynamic environments.**
- **Utilized advanced computer vision techniques and deep learning algorithms to process live video feeds.**
- **Achieved real-time inference with minimal latency for deployment in live surveillance and security systems.**

---

3. Fine-Tuning LLaMA 3.1 for Personalized Career Guidance (Production-Level)

- **Fine-tuned the LLaMA 3.1 model to deliver tailored career advice based on user preferences, goals, and skills.**
- **Created a scalable system offering personalized recommendations and actionable insights.**
- **Successfully deployed a production-grade career guidance solution with high accuracy and user satisfaction.**

Certifications

[RESEARCH AS MEMBER] | [PGDAV COLLEGE(DU)] | [2024]

[SIH] | [GOVT. OF INDIA] | [2024]

References

Available upon request.