



AKSHAT GUPTA

AI & ML ENTHUSIAST | INNOVATOR

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SUMMARY

AI Researcher & Developer passionate about Deep Learning, Machine Learning, Generative AI, and NLP, with a strong focus on translating cutting-edge research into scalable, real-world AI solutions. Currently pursuing a B.Tech in Computer Science & Engineering (AI Specialization) at Bennett University.

EExperienced in LLMs, VLMs, Diffusion Models, LoRA, and Computer Vision, with hands-on expertise in fine-tuning Gen AI models and shipping production AI platforms for media generation. Proficient in leveraging advanced AI frameworks to drive innovation, enhance performance, and deliver efficient, production-ready AI applications.

EXPERIENCE

AI Intern — LetsAI Solutions Pvt. Ltd.

SEPT, 2025 - MARCH, 2026

Assisted in developing, implementing, and fine-tuning machine learning models, performed data analysis and preprocessing for training datasets, and collaborated with the team to optimize algorithms and improve model performance across AI/ML projects.

Generative AI Intern - Curlscape

JULY, 2025 - AUGUST, 2025

I served as a Generative AI Intern at Curlscape. My responsibilities included researching, evaluating, and fine-tuning Large Language Models (LLMs), as well as curating and preparing datasets.

PROJECTS

UmZobo — AI Creative Studio

NOV, 2025 - PRESENT

Full-stack · SaaS · Generative AI · Video & Image Pipelines

Built UmZobo, an end-to-end AI SaaS platform for media generation spanning video, image generation/editing, and creative workflows. Architected and deployed AI models and generation pipelines on serverless GPUs, with production auth, credits billing, and custom LoRA support for client-facing use. It also has 50+ state of art models

Freelancing - Trained Lora for Clients

JAN, 2025 - PRESENT

Generative Ai, Python, LoRA Fine tuning, Flux model

Fine-tuned custom LoRA models for clients within Flux-based image generation systems, using Low-Rank Adaptation (LoRA) to deliver realistic, high-quality AI-generated images tailored to client needs

Novel Eye Disease Prediction Model

SEPT, 2024 - DEC, 2024

Deep Learning, Tensorflow, Ensemble Learning

Engineered a novel ensemble model for Eye Disease Detection, integrating multiple deep learning architectures with transfer learning to achieve high-accuracy classification of 10 eye diseases.

Medical ChatBot

NOV, 2024 - DEC, 2024

NLP, RAG, LangChain, OpenAI

Conceptualized and built an AI-powered Medical Chatbot, utilizing retrieval-augmented generation (RAG), LLMs, and NLP to deliver accurate, context-aware medical assistance, enhanced by a vector database.

Smart-Exam-Assistant

MAR, 2025 - APR, 2025

NLP, RAG, OpenAI, Python,, Flask

Smart Exam Assistant is a sophisticated web application that uses hierarchical Retrieval-Augmented Generation (RAG) to provide accurate and contextual answers to questions about examination policies.

TECHNICAL SKILLS

Programming & Tools: Python, C++, Docker, Flask

AI & Machine Learning:

- Generative AI: RAG, Prompt Engineering, Diffusion Models, Mixture of Experts (MoE), Text/Image/Video Generation Models, Serverless Deployments for AI , Experienced Opensourced Models (image, video generation)
- Deep Learning: Transformers, Attention Mechanisms, CNNs, RNNs, Auto encoders
- LLMs & NLP: Large/Small Language Models, Vector Databases
- Optimization & Fine tuning: LoRA/QLoRA, Hyper-parameter Tuning, Model Quantisation, PEFT , Knowledge Distillation
- Concepts: Computer Vision, Semantic Search

Frameworks & Libraries: TensorFlow, PyTorch, Scikit-Learn, Hugging Face, LangChain, NLTK, Gradio

EDUCATION

B.Tech in Computer Science & Engineering (AI Specialization)

CGPA: 8.63/10

2022 - Present

Bennett University, Greater Noida , UP, India

Senior Secondary

Sant Gyaneshwar Senior Secondary School , Delhi

2022