

# ALI AHMAD JAN

AI Engineer | Data Scientist | GenAI Enthusiast

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Nagar, Gilgit-Baltsitan, Pakistan

## EDUCATION

- Federal Urdu University of Arts Science and Technology** 2016 - 2020  
B.S in Mathematical Sciences karachi, Pakistan
  - CGPA: 3.03/4.00

## PROFESSIONAL DEVELOPMENT

- High Impact Training Program in Data Science/ Artificial Intelligence** May-2023 – Dec-2023  
National University of Science and Technology(NUST) Gilgit, Pakistan
  - Comprehensive training in AI, Data Science, Machine Learning, Deep Learning, Neural Networks, NLP, Computer Vision, Data Mining, Generative AI, Object Detection, and MS-Azure, with hands-on experience in advanced techniques and real-world project collaboration to tackle data-driven challenges.
- Generative AI with LLMs** 3 Weeks  
DeepLearning.AI, Coursera Online
  - Expertise in generative algorithms, advanced training techniques, and fine-tuning large language models(LLMs), with hands-on experience in PEFT, LoRA, quantization, RLHF, SFT, and proven proficiency through rigorous certification.
- Large Language Model Operations(LLMOps)** 11 Hours  
Udacity Online
  - Completed a course in Large Language Model Operations (LLMOps), gaining expertise in deploying, managing, and optimizing large-scale language models for various applications..
- AI in Healthcare Specialization(In Progress)** 4-6 Months  
Stanford University, Coursera Online

## EXPERIENCE

- Prodigy InfoTech** Dec/23 – Jan/2024  
Machine Learning Intern Remote
- Mentorless** Dec/23 – Jan/2024  
Machine Learning Intern Remote
- Code Alpha** Dec/23 – Jan/2024  
Machine Learning Intern Remote
- The Sparks Foundation** Jan/2024 - Feb/2024  
Data Science and Business Analytics Intern Remote
- YoungDev** Jan/2024 - Feb/2024  
Machine Learning Intern Remote
- The Leaders Academy** 2021 - 2023  
Mathematics Lecturer Gilgit

## PROJECTS

- Fine-Tuning Large Language Models(LLMs)** [Project Repo Link](#)
  - Personally collected a dataset of over 4,000 questions and answers related to Gilgit-Baltistan in .jsonl format and aligned a fine-tuned LLAMA2-7b and Mistral-7b LLM models to develop a task-specific chatbot focused on tourism to exploring Gilgit-Baltistan.
  - Fine-tuned Llama3.2, Qwen2.5, RoBERTa and BERT models for multiple tasks.
- Gemini-pro with langchain for MultiDocs** [Project Repo Link](#)
  - Developed a multi-doc chatbot using Gemini Pro and LangChain for seamless interaction. Integrated LangChain to provide interconnected insights across documents. Enabled advanced, efficient dialogue by leveraging Gemini Pro's capabilities.

## • RAG based docs to Chatbot with OpenAI

[Project Repo Link](#)

- Enhanced the chatbot's functionality by applying LangChain for improved language processing, utilizing OpenAI tools for additional capabilities, and integrating RAG projects' PDF content to expand the conversational knowledge base

## • Image Classification with ViT

[Project Repo Link](#)

- Fine-tuning the pre-trained Vision Transformer model google/vit-base-patch16-224-in21k on the Mahadih534/Chest CT-Scan images-Dataset for chest CT scan image classification.

## • Facial Expression Recognition

[Project Repo Link](#)

- Trained a robust model using a diverse dataset of 30,000+ images, categorized facial expressions into seven classes, and incorporated the MobileNetV5 pre-trained CNN model for efficient and accurate feature extraction.

## • Object Detection Project

[Project Repo Link](#)

- Executed an end-to-end object detection project by personally collecting a customized dataset across four classes, and employing the YOLO-v5 model for real-time, efficient, and accurate detection.

## FINAL YEAR RESEARCH PROJECT

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- The implementation of Perturbation-Iteration Algorithm(PIA) method in chemical applications one often encounters system of ordinary differential equations.

## SKILLS SET

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- Python Programming | Data Science | Artificial Intelligence | Supervised Learning | Unsupervised Learning | Machine Learning | Data Visualization | Data Mining | Data Preprocessing | Deep Learning | Neural Network | NLP | Data Preprocessing | LLMs | Computer Vision | Object Detection | Generative AI | MS-Azure | RAG | Tableau | Keras | Pytorch | Tensorflow | Scikit-learn | Numpy | Pandas

## REFERENCES

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