

# Usama Arif

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Machine Learning | Deep Learning | AI Engineer | Data Scientist

## SKILLS SUMMARY

- Data Science/Machine Learning/Deep Learning:** Data Visualization, Power bi, supervised and unsupervised algorithms, ANN, CNN, RNN, LSTM, Auto Encoders, Feature Selection & Extraction.
- ML Framework/Modules:** Sklearn, Tensorflow, Pytorch, Keras, Numpy, Pandas, Opencv, transformers, YOLO.
- Programming and DB Languages:** Python, SQL/Mysql, vector databases.
- Web Development Tools:** Flask, Streamlit, Fast API.
- Cloud based Deployment:** GitHub, Streamlit cloud, Heroku, Netlify, HuggingFace cloud.
- LLM tools and frameworks:** Langchain, Openai API, Gemini, Open Source llms, Langsmith, HuggingFace, RAG.
- Mathematics:** Linear Algebra, Probability, Statistical Analysis

## PROJECTS

### Gender and Emotion Detection |Pytorch |Streamlit | [LINK](#)

- Built a PyTorch model achieving 90% accuracy for real-time gender and emotion detection.
- Trained on diverse datasets for precise, live predictions using a webcam feed.
- Enabled instant on-screen results by integrating the model with webcam input.
- Optimized for smooth, low-latency inference in real-time applications.

### Automated Document Analysis and Processing System |GPT4 API |Streamlit | [LINK](#)

- Developed a Streamlit app for automated document processing.
- Integrated GPT-4 API for tasks like buyer persona creation and SEO summarization.
- Conducted advanced data analysis on CSV files for keyword extraction.

### CO2 Emission for Vehicles |Regression |streamlit | [LINK](#)

- Enhanced data integrity 20% by preprocessing, handling missing values, encoding and outlier removal.
- Implemented regression models, reducing prediction errors for CO2 emissions by 15%.
- Developed a Streamlit app for real-time CO2 emission predictions using vehicle features.

## WORK EXPERIENCE

Gen AI Intern to Gen AI Engineer| Ai dev Studio | Remote

September 2024 - Onward

- Promotion:** Advanced from Gen AI Intern to Gen AI Engineer within one month due to exceptional performance
- Project Development:** Developed and deployed over 10 generative AI applications, focusing on RAG-based architectures.
- Technical Skills:** Worked with large language models (LLMs) like OpenAI and Anthropic; built parser-type applications.
- Deployment:** Managed end-to-end deployment of applications, ensuring optimal performance and user experience.

AI/ML/DL Engineer | Fiverr | [LINK](#)

November 2023 - Onward

- Freelancer on Fiverr offering **ML, DL, NLP, Computer Vision** Gen Ai tasks, and deployment on Flask, Streamlit.
- Skilled in data cleaning for high-quality datasets.
- Level 1 seller providing professional data science services.

## EDUCATION

Bachelor of Science in Electrical Engineering  
University of the Punjab, Lahore, Pakistan

Dec 2020 – Sep 2024

Higher Secondary School Certificate (FSC)  
Board of Intermediate and Secondary Education, Faisalabad, Pakistan

2018 – 2020

## CERTIFICATIONS

IBM AI Engineering Professional Certificate | [CERTIFICATE](#)

June 2024 - August 2024

- Completed 6 including Machine Learning, Deep Learning, Computer Vision using Python, Keras, PyTorch, and TensorFlow.
- Developed and deployed ML algorithms and pipelines, with hands-on experience from an AI Capstone Project.

National Vocational and Technical Training Commission | [CERTIFICATE](#)

May 2023 - August 2023

- Completed a 4-month Artificial Intelligence course focused on Machine Learning and Deep Learning.
- Successfully finished the course, acquiring proficiency in Neural Networks and Keras.
- Hands-on experience building and training neural networks, focusing on practical applications of deep learning models.