

## CAREER OBJECTIVE

**High-Potential Machine Learning Engineer** with **6 months of hands-on expertise** in architecting and deploying **end-to-end AI solutions**. Core competency lies in leveraging **Python**, **Natural Language Processing (NLP)**, **Computer Vision**, and **Generative AI** for innovation, coupled with a practical understanding of **MLOps principles** (including containerization) and cloud platforms like **AWS/Azure/GCP**. Eager to transition high-performing models from **R&D** to **production** in an Entry-Level **ML Engineering** or **Data Scientist** role, aiming to deliver measurable business impact.

## EDUCATION – The University of Lahore.

*October 2021 – July 2025*

- **Bachelor of Science in Computer Science - BSCS -> Graduated in August 2025**
- **Relevant Coursework:** Object-Oriented Programming, Data Structures, Web Programming, Artificial Intelligence, Machine Learning, NLP, Generative AI, Deep Learning, Artificial Neural Networks.

## CERTIFICATIONS

- [AWS Certified Machine Learning Engineer](#)
- [AWS Certified Introducing Generative AI](#)
- [Generative AI – LinkedIn Learning](#)
- [Transformer LLMs – OpenAI](#)
- [Neural Networks and Deep Learning – Coursera \(Stanford University\)](#)
- [Python Programmer – Cisco](#)
- [Python Programming Fundamentals – Microsoft Learn](#)
- [Generative AI with LLMs – Amazon Web Services \(AWS\)](#)
- [Kaggle Batch for Python Programmer](#)

## EXPERIENCE

### AI/ML Intern — Octalooop Technologies.

*Jan 2025 – March 2025*

- **Spearheaded** the initial Data Workflow, including **preprocessing**, **feature engineering**, and **rigorous Exploratory Data Analysis (EDA)**, to ready complex datasets for model training, explore **Django** with Beginner Projects development.
- **Collaborated** with the senior team to **Train and optimize ML workflows**, contributing to codebase efficiency using **Python** and advanced libraries such as **PyTorch**, **Matplotlib**, and **Seaborn** and **Created my own full fledge project of Deep learning and CV**.
- **Engineered and implemented** scalable **machine learning pipelines** using **Pandas**, **NumPy**, **Scikit-learn**, and **TensorFlow**, ensuring successful **training, testing, and deployment** of models into production environments.

## PROJECTS

### **KidTracker App (FYP) — Fast API | MongoDB | FaceNet | Flutter | Dart | Python | Machine Learning**

- **Engineered** a complete, real-time Facial Recognition System by **fine-tuning the FaceNet 512 model** on a dataset of **6,000 images** (5k training, 1k validation), achieving a high **91% recognition accuracy**.
- **Developed** the end-to-end application architecture, building the **backend** using **FastAPI** and **MongoDB**, and the responsive **frontend** using **Flutter** and **Dart**.

### AI-Powered-Image-Captioning-and-Search-API — Fast API | Sqlite3 | Python | NGrok | Hugging-face Models |

- **Designed and deployed** a comprehensive Streamlit **web application** that enables users to upload images, generating **AI-powered captions and embeddings** for storage in a MongoDB database; facilitated a **prompt-based image retrieval system** to fetch relevant content using ML embeddings.

### Classification-and-segmentation-based-computer-vision-Models

- **Developed** a custom **Computer Vision model** for object attribute prediction (gender, shirt color, and glasses), using data fetched via Selenium web scraping. Successfully trained the model despite using a **small dataset**, demonstrating resource optimization and effective model handling.

### AI Resume Optimizer (Hugging Face Pretrained Model) — Streamlit | Hugging Face Model | Spacy

- **Engineered and deployed** an NLP-based **Resume Optimization Tool** (Live Demo: [Demo Link]) that analyzes resumes against job descriptions, providing **real-time scoring**, **job-role matching**, and **keyword optimization insights**.
- **Developed** the complete solution using a robust tech stack, including **Python**, **Streamlit** for the user interface, and **Scikit-learn/Spacy** for core natural language processing functionalities.

### Logistic Based Voice Caller

### Depression prevention Chatbot (Hugging Face Pretrained Model) — Provide assistance

### REST API Integration with Gemini & Llama Models — LSTM | Seq2Seq | Attention Mechanism

### AI Agent System (GenAI) — NLP | Agentic-Based Architecture

## TECHNICAL SKILLS Languages

**11 Labs**, **Scraping**, **Deep Learning & Frameworks** **PyTorch**, **TensorFlow**, **Keras**, **Hugging Face Transformers**, **LangChain**, **Computer Vision**, **OpenCV**, **YOLO**, **ResNet**, **EfficientNet**, **Vision Transformer**, **Roboflow**, **Natural Language**, **Processing LLMs**, **Agentic AI**, **Generative AI**, **Spacy**, **Seq-to-Seq Modeling**, **Core Languages & Libraries**, **Python**, **C/C++**, **Node.js**, **Pandas**, **NumPy**, **Scikit-learn**, **Databases & Back-end**, **FastAPI**, **Django**, **Streamlit**, **MongoDB**, **MySQL**, **Postman**, **Swagger UI**, **MLOps & Cloud AWS**, **Git/GitHub**, **Docker (Implicit)**, **SDLC (Agile/Waterfall)**, **Testing Tools & Analytics** **Jupyter Notebook**, **VS Code**, **Tableau (Basic)**, **Power BI**, **SQL**.