

MUHAMMAD HUZAIFA ZEB

Artificial Intelligence Engineer

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Summary

Machine Learning Engineer and AI undergraduate with practical experience in building and deploying deep learning and machine learning models for real-world problems. Skilled in Python, TensorFlow, PyTorch, and Scikit-learn, with hands-on work in computer vision and NLP through internships and projects. Motivated to create ethical and impactful AI solutions.

Experience

Eziline Software House Pvt Ltd

July 2024 – October 2024

Machine Learning Engineer

Rawalpindi, Pakistan

- Gained hands-on experience in developing machine learning models for prediction and classification tasks during internship at Eziline Software Company Ltd.
- Worked on Natural Language Processing (NLP) tasks, including text classification and sentiment analysis using Python.
- Implemented computer vision solutions using OpenCV for image processing and object detection.
- Trained and fine-tuned deep learning models with TensorFlow and Keras for various AI applications.
- Collaborated with a technical team to deploy and integrate AI models into real-world software systems.

Code Alpha

May 2024

Machine Learning Engineer

Remote

- Designed an image-to-caption generator using deep learning models, achieving 85% accuracy.
- Developed a high-accuracy spam email detection system using Label Encoding, Count Vectorization, and Multinomial Naive Bayes to enhance email security and user productivity.
- Created a Tic Tac Toe game using Python, incorporating AI for single-player mode.

Mari Energies Limited

August 2025 – September 2025

IT Intern (Networks, Systems & Operations)

Mari Field, Daharki

- Gained hands-on experience in IT Infrastructure and Operations supporting industrial environments.
- Worked with enterprise networking technologies including Cisco switches, VLANs, and port security.
- Assisted in data center operations, environmental monitoring, and unified communications (VoIP/IP Telephony).
- Supported ERP processes using SAP, including Purchase Requisitions and Material Issue Vouchers.
- Participated in IT asset lifecycle management and IT service management using ManageEngine ServiceDesk Plus.
- Monitored network and system performance using PRTG monitoring tools.
- Visited field sites including Wells, Rigs, CMF-I, CMF-II, and MDCPF to observe IT support for critical industrial operations.

Education

Bahria University

Islamabad

Bachelor of Science in Artificial Intelligence

January 2026

Army Public School for Boys, Ordnance Road

Rawalpindi

Faculty of Science (FSc)

2019 – 2020

Projects

Giftnix AI Model Development (Final Year Project) — Python, TensorFlow, Scikit-learn

2025

- Developed an end-to-end AI-based fraud detection model for E-commerce transactions using a CNN-based architecture.
- Performed large-scale data preprocessing, feature engineering, and class imbalance handling to improve fraud recall and precision.
- Optimized decision thresholds using ROC and Precision-Recall analysis to enhance real-world fraud detection performance.
- Deployed the trained model with a prediction pipeline capable of handling real-time transaction inputs for the Giftnix platform.

TruthLens AI (Hybrid Fake News Detection System) — Python, Scikit-learn, Gemini API

2026

- Developed a hybrid fake news detection system integrating ML classification with LLM reasoning.
- Trained a TF-IDF + Passive Aggressive Classifier to detect fake vs real news articles with high precision.
- Implemented live URL scraping and article parsing using BeautifulSoup for real-time news evaluation.
- Integrated Google Gemini API to analyze bias, sensationalism, and logical fallacies for explainable predictions.
- Developed an interactive Streamlit dashboard with credibility visualizations and downloadable PDF reports.

StyleGPT Outfit Specialist (LLaMA 3.2 3B) — Python, LangChain, FAISS, Streamlit, LLM

2026

- Developed an AI-powered fashion recommendation assistant using LLaMA 3.2 3B with LangChain for retrieval-augmented generation.
- Built a custom apparel dataset and embedding pipeline for personalized outfit suggestions.
- Implemented FAISS vector store for fast similarity search across clothing and style embeddings.
- Designed prompt and retrieval pipelines to generate context-aware styling recommendations.
- Deployed an interactive Streamlit application for real-time outfit and fashion advisory queries.

Traffic Sign Recognition — Python, TensorFlow, CNN

2025

- Developed a convolutional neural network to classify traffic signs using image data with high accuracy.
- Employed data augmentation and preprocessing to enhance model generalization for real-world scenarios.
- Supported intelligent transport systems and autonomous vehicles with precise recognition capabilities.

Image Caption Generator — Python, TensorFlow, Keras, LSTM

2024

- Built an image captioning model using VGG16 for feature extraction and LSTM for sequence generation.
- Processed the Flickr8k dataset to train the model for generating human-like captions for uploaded images.
- Deployed the application using Streamlit for an interactive user interface with real-time predictions.

Gender Prediction Using CNN — Python, PyTorch

2024

- Designed and trained a CNN model to predict gender from facial images using supervised learning.
- Conducted preprocessing and model tuning to boost accuracy and reduce overfitting.
- Delivered predictions via a Streamlit app with an intuitive interface.

Technical Skills

Languages: HTML, CSS, JavaScript, React, Node.js, Express, MongoDB, REST APIs, Git, Linux, Deployment

Software Tools: Dev C++, No SQL, Proteus, Latex Overleaf, Cisco, Anaconda Navigator, Jupyter, Spyder, VMWare (Ubuntu)

Machine Learning Tools: PyTorch, Scikit-learn, TensorFlow, Pandas, NumPy

Soft Skills: Teamwork, Multi-tasking, Leadership, Problem Solving, Communication

Certifications

Machine Learning With python (IBM Certified)

Data Visualization Using Python (Great Learning)

Python For Data Science (IBM Certified)

The Art Of Prompt Engineering (IBM Certified)