

MEHVISH ABBAS

Machine Learning Engineer | Full-Stack AI Developer

CONTACT

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- Mehwish Abbas
- Mehvish Abbas

SKILLS

Machine Learning & AI

- Supervised & Unsupervised Learning
- Predictive Modeling & Feature Engineering
- Deep Learning (ANN, CNN, RNN)
- NLP & Computer Vision
- Reinforcement Learning
- Model Evaluation & Optimization

Frameworks & Tools

- Python, NumPy, Pandas, Scikit-learn, XGBoost
- TensorFlow, PyTorch, Keras, Hugging Face Transformers
- SpaCy, OpenCV, Matplotlib, Seaborn
- Flask, Django, Streamlit, REST APIs
- Git, VirtualBox, SQLite, PostgreSQL
- Azure ML Studio, Google Cloud ML, VS Code

Other Skills

- Web Scraping & API Integration
- Project Management (Trello, Asana)
- Video Editing (Adobe Premiere Pro)
- Creative Design (Photoshop, Canva)
- Communication & Time Management
- Debugging & Performance Tuning
- Data Ethics & Responsible AI

SUMMARY

Computer Science graduate with hands-on experience in machine learning, including building an end-to-end facial and iris recognition system. Skilled in NLP, deep learning, model optimization, and full-stack AI deployment. Passionate about solving real-world problems through data-driven solutions using modern ML frameworks.

PROJECTS

Smart Attendance System (FYP)

Built a full-stack facial and iris recognition system for automated attendance.

Tools: Python, OpenCV, Django, React, PostgreSQL

Resume Parsing System

Developed an end-to-end system to parse resumes and match with job descriptions using NLP and NER.

Tools: Spacy, React, Django, SQLite

Chatbots (Rule-based & LLM-style)

Developed basic rule-based bots and a GPT-like response generator using pretrained language models and Transformers.

Tools: NLTK, Hugging Face Transformers, Flask

Hugging Face Projects (Transformers)

Implemented NLP applications using pretrained models:

- Sentiment Analysis
- Text Generation
- Speech-to-Text (ASR)
- Tools: Hugging Face Transformers, Datasets, Tokenizers

Medical & Price Prediction Models

- Heart Disease & Breast Cancer Prediction
- House & Car Price Estimation

Other Projects

- Real Estate Price Prediction Website
- Portfolio Website | Interactive Web Pages
- 3D Game (Unity)

EDUCATION

- ✓ **BACHELOR in Computer Science**
 - Islamia University of Bahawalpur (2021- 2025)
- ✓ **SECONDARY & INTERMEDIATE**
 - G.G.H/S Mehrab wala, Ahmed Pur East (2017-2019)
 - Punjab College Ahmed Pur Campus (2019- 2021)

CERTIFICATIONS

- **Deep Learning Specialization**
– Coursera (Andrew Ng) – 2025
- **Machine Learning Specialization**
Coursera (Andrew Ng) – 2024
- **Transformer Models and BERT Model**
Google Cloud – 2025
- **Encoder-Decoder Architecture for NLP**
Google Cloud – 2025
- **Hugging Face Projects**
Simplilearn – 2025
- **Image Classification with CNNs –**
Google Developers (ML Practicum) – 2025
- **Advanced Programming in ML (Azure AI)** Corvit Systems – 2024
- **Prompt Engineering**
Udemy – 2023

| All certifications include practical hands-on labs and real-world project tasks.

EXPERIENCE

STARTUP CONSULTANCY

Project Manager • FAB 2024 – May 2025

- Led a cross-functional team to deliver diverse non-tech business projects.
- Managed workflows, tasks, and team coordination across departments.
- Oversaw documentation, progress tracking, and final reporting for multiple clients.

Additional Experience

Freelance Video Editor • Remote • Jul 2021 – Present

- Worked with multiple agencies and clients to deliver high-impact visual content across digital platforms.
- Produced 500+ corporate, promotional, and social media videos for brands and startups
- Specialized in fast-paced editing, visual storytelling, and post-production enhancement
- Collaborated remotely with creative teams to ensure brand consistency and high-quality output.

INTERESTS

- Artificial Intelligence & Innovation
- NLP and Generative Models
- Cloud-based AI Deployment
- Ethical & Responsible AI
- Reading Tech & Research Articles
- Content Creation (AI-focused)
- Photography & Videography
- Exploring Open Source Projects