

# Ahmad Saeed

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## Technical Skills

**Languages and Databases:** Python, SQL, HTML, CSS, JavaScript, Node JS, React, AWS, Azure, GCP, GitHub, Unity, C#, Firebase

**Visualization Tools:** Power BI, Tableau and Looker

**Other Skills:** Data Science, Data Analysis, Data Modeling & Engineering, Gen-AI, Computer Vision, DevOps, Advanced Excel

## Experience

### Tesseract Technologies

Jan 2024 – Present

Data Scientist & AI/ML Engineer

Lahore, Pakistan

- **Crypto Price Prediction with LSTM:** Developed a **multivariate LSTM** model for **time series forecasting** BTC open prices using **Binance API data**. Preprocessed dataset, applied time windowed training, and **evaluated performance (MAPE, MAE, RMSE)**. Integrated US business day logic for **realistic date forecasting**. Visualized **actual vs predicted** trends for better insight.
- **AI-Powered Document Processing:** Developed **Claustro.io**, educational platform **powered by GPT-3.5-Turbo**, enabling personal tutoring, **voice-based learning (Whisper STT, Coqui TTS)**, AI-driven assessments, and dynamic content generation. Developed modular FastAPI services for **chatbot, STT/TTS, grading, plagiarism detection, tesseractOCR, and video summarization**. Quiz creation and generated narrated **videos from PDFs/DOCX**, enhancing accessibility and personalized education.

### ITSOLERA

Aug 2022 – Jan 2024

Data Scientist & AI/ML Engineer

Islamabad, Pakistan

- **Predictive Analytics & Data Automation:** Improved **forecasting accuracy by 20%** and operational efficiency by **15%** through ML/DL models. Streamlined **ETL pipelines** and built **Power BI dashboards** for **financial insights** and strategic decision-making.
- **AI Image Generation:** Built a **Streamlit** based application **integrating StyleGAN2-ADA** for real time **face generation, style manipulation, and latent space interpolation**. Enabled **GPU accelerated processing**, session managed state, and automatic image saving to enhance **user interaction and experimentation** with **generative models**.

### UET (KICS Department)

Sep 2021 – Aug 2022

Data Scientist & AI/ML Engineer

Lahore, Pakistan

- **AI-Powered Financial Planner:** Developed an AI-driven financial planning tool that analyzes **income, expenses, and investments** to provide **personalized financial advice**. Implemented **regression models** for **budget optimization and future expense prediction**, enhancing financial decision-making.

## Personal Projects

### 1. Chatbot with Web scraping and LLM integration

- Developed a chatbot with web scraping using **Requests and BeautifulSoup**. Proficient in **Transformers, Ngrok, Pandas, Flask, and NLP tasks** (text generation, translation, sentiment analysis, NER) using Hugging Face and Blenderbot. **Integrated and fine-tuned NLP models** for high accuracy and deployment.

### 2. Stock Market Price Prediction Model

- Analyzed stock data using **Pandas, NumPy, Matplotlib, Pytorch, and scikit-learn**. Implemented K-Nearest Neighbors (KNN) for predicting **time-series** stock prices, validated using **accuracy and RMSE metrics** against actual values.

### 3. Movie Recommender System

- **Pandas, NumPy, Tensorflow, Keras, and scikit learn** for data processing and similarity calculations. Develop custom recommender function utilizing **CountVectorizer** and **cosine similarity** to suggest **top 5 movies based on user input**.

### 4. License Plate Recognition (LPR)

- Developed a **deep learning AI-Powered based LPR** using **Python, YOLOv8, and EasyOCR**. Applied **object detection and optical character recognition (OCR)** techniques to achieve **high-precision real-time LPR**. Optimized model performance for **accuracy and scalability** in real-world applications.

## Courses & Certifications

IBM / Python for data science

Sep 2023 - Dec 2023

IBM / Machine learning with python

Jan 2024 - May 2024

IBM / Deep learning with fundamentals

May 2024 - Oct 2024

IBM / SQL & Relational Database

Aug 2020 – Nov 2020

Coursera / Essential Google Cloud Foundation and Core Infrastructure Certificate

Jan 2024 – Aug 2024

## Education

Superior University

Sep 2018 – July 2022

Bachelor of Science in Information and Technology

Lahore, Pakistan