

# Muhammad Abubakar

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## SUMMARY

AI Engineer & Data Scientist with expertise in Machine Learning, Deep Learning, NLP, and MLOps. Experienced in building, deploying, and optimizing AI models using TensorFlow, PyTorch, and cloud services (AWS, Google Cloud). Skilled in Large Language Models (LLMs), Generative AI, and predictive analytics. Passionate about developing scalable AI solutions and deploying models into production

## EDUCATION

### Bachelor of Computer Science

The University of Faisalabad · Faisal Town Faisalabad · 2026 · 3.76

## EXPERIENCE

### Internship Trainee

CSOFT Systems

July 2024 - September 2024, Faisalabad, Punjab, Pakistan · On-site

- Developed and maintained web applications using HTML, CSS, JavaScript, and Flask, ensuring seamless user experiences and dynamic API integrations.
- Collaborated with cross-functional teams to implement responsive front-end and back-end features, optimizing performance.
- Gained practical experience in Flask development, debugging, version control (Git), and ensuring mobile-friendly designs.

## PROJECTS

### Chest-Cancer-Classification-with-Mlops

Self-Initiated Project · [3.109.210.206:8080/](#) · September 2024 - December 2024

- Developed a CNN-based deep learning model to classify chest cancer types (Adenocarcinoma, Large Cell Carcinoma, Normal, Squamous Cell Carcinoma).
- Integrated MLOps pipeline with MLflow, Docker, and AWS EC2 for automated training, testing, deployment, and real-time predictions.

### Movie-Recommender-System-with-Sentiment-Analysis

Self-Initiated Project · [movie-recommender-system-with-sentiment.onrender.com/](#) · June 2024 - November 2024

- Developed a hybrid movie recommendation system using collaborative filtering and NLP-based sentiment analysis for personalized recommendations and review predictions.
- Integrated TMDb API for dynamic movie posters and deployed the model with Flask, featuring a responsive, interactive frontend.

### Stock-Price-Prediction-And-Forecasting-Using-Stacked-LSTM

Self-Initiated Project · [github.com/Abu-bakar56/Stock-Price-Prediction-And-Forecasting-Using-Stacked-LSTM](#)

- October 2024 - October 2024
- Designed a time-series forecasting model using Stacked LSTMs to predict 300-day stock closing prices.
- Implemented feature engineering and data preprocessing with pandas and NumPy for improved data quality and model accuracy.

### What's-App-Chat-Analyzer

Self-Initiated Project · [whats-app-chat-analyzer-q382.onrender.com/](#) · July 2024 - October 2024

- Developed an NLP-based chat analyzer to extract user insights, sentiment trends, and activity patterns.
- Visualized chat patterns using Matplotlib and Seaborn.

### Gemstone Price Prediction with MLOps Pipeline

Self-Initiated Project · [gemstone-price-prediction-with-mlops.onrender.com/](#) · September 2024 - September 2024

- Built a predictive pricing model for gemstones using Random Forest and XGBoost.
- Integrated MLOps pipeline for real-time data ingestion and model updates.

### loan Approval System

Self-Initiated Project · [loan-approval-system-ea49.onrender.com/](#) · August 2024 - September 2024

- Developed a classification model to assess loan eligibility using Logistic Regression and Decision Trees.
- This project involves building a machine learning model that predicts loan approval based on applicant details such as income, education level, credit history, and other factors.

**Customer Churn Predictor**

Self-Initiated Project • [customer-churn-predictor-weql.onrender.com/](https://customer-churn-predictor-weql.onrender.com/) • August 2024 – August 2024

- Implemented a churn prediction model using Random Forest and Gradient Boosting.
- A Flask-based web application for predicting customer churn in a telecom company.

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**CERTIFICATIONS**

**Applying AI Principles with Google Cloud**

Google • 2025

**Machine Learning Operations (MLOps) for Generative AI**

Google • 2025

**Introduction to Generative AI**

Google • 2025

**Introduction to Large Language Models**

Google • 2025

**Prompt Design in Vertex AI**

Google • 2025

**MLOps Foundation**

iNeuron.ai • 2024

**Machine Learning with Python**

IBM • 2024

**Transformer Models and BERT Model**

Google • 2024

**Introduction to Data Science**

Cisco • 2024

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**COURSEWORK**

**Machine Learning with Python**

Coursera • 2024 • Machine Learning

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**SKILLS**

Technical Skills

Artificial Intelligence & Machine Learning

LLMs, Generative AI, Transformer Models, NLP, Computer Vision, Predictive Modeling

Deep Learning & MLOps

CNN, RNN, LSTM, Transfer Learning, Model Optimization, Docker, Kubernetes, MLflow, AWS, Google Cloud

Data Science & Analytics

EDA, Data Cleaning, Feature Engineering, Statistical Analysis, Data Visualization (Matplotlib, Tableau)

Programming & Databases

Languages: Python, SQL, C++, Java, MongoDB, TensorFlow, PyTorch, Flask, FastAPI

Software & Tools

Git & Version Control, Microsoft Excel, API Development

Web Technologies: JavaScript, Flask, PHP, Bootstrap

Soft Skills

Analytical Thinking, Problem-Solving, Collaboration, Communication