

# Muhammad Saqib Ijaz

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## Summary

Machine Learning Engineer with **2 years of experience** in developing, deploying, and optimizing ML models. Skilled in **Python, SQL, Scikit-learn, Flask, OpenCV, and TensorFlow**, with hands-on experience in **recommendation systems, predictive analytics, and AI-powered applications**. Passionate about leveraging machine learning to solve complex business problems.

## Core Skills

- ◆ **Machine Learning & AI** – Supervised & Unsupervised Learning, Deep Learning, NLP
  - ◆ **Programming & Tools** – Python, SQL, Flask, TensorFlow, PyTorch, Scikit-learn, OpenCV
  - ◆ **Data Processing & Analysis** – Pandas, NumPy, Matplotlib, Seaborn, Feature Engineering
  - ◆ **Model Deployment & MLOps** – Flask, FastAPI, Streamlit, Docker, Git
  - ◆ **Recommendation Systems** – Content-based & Collaborative Filtering, Cosine Similarity
  - ◆ **Cloud & Databases** – SQLite, PostgreSQL, AWS Basics
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## Working Experience/ Projects

### Movie Recommendation System

**Tech Stack:** Python, Scikit-learn, NLTK, Pandas, NumPy

- ◆ Built a **content-based recommendation system** using NLP techniques such as **tokenization & stemming**.
- ◆ Implemented **Cosine Similarity** to provide personalized recommendations.

### AI-Powered Diagnostic App (Hackathon Project)

**Tech Stack:** LangChain, OpenAI, Streamlit, Pandas

- ◆ Developed a **diagnostic chatbot** using OpenAI APIs for medical inquiries.
- ◆ Utilized pre-existing **CSV datasets** for reasoning and recommendations.

### Advanced Photo Editor

**Tech Stack:** Flask, OpenCV, U2Net, SQLite

- ◆ Created an AI-powered photo editor with **background removal & passport photo generation**.
- ◆ Integrated **Flask for web deployment** and **SQLite for storage**.

### Sales Data Analysis for Restaurants

**Tech Stack:** Pandas, NumPy, Matplotlib, Seaborn

- ◆ Conducted **EDA on restaurant sales data**, identifying customer preferences and sales trends.
  - ◆ Developed **visual reports** to track revenue based on payment methods, item popularity, and staff performance.
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## Certifications

- ✓ **Machine Learning – Andrew Ng (Coursera)**
  - ✓ **Python for Everybody – University of Michigan**
  - ✓ **Web Development – PNY**
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## Education

**Bachelor of Science (BS) in Computer Science**

Mirpur University of Science and Technology (2019 - 2023)