

MUHAMMAD ASAD KAMAL SHAH

SOFTWARE DEVELOPER

✉ kamalasad57@gmail.com || ☎ +92 305 1958933 || 📍 Mianawala, Isa Khel, Mianwali, Punjab, Pakistan

Motivated and solution-focused **MERN Stack Developer** with hands-on experience in building full-stack web applications and integrating **AI/ML models** into real-world solutions. Proficient in **MongoDB, Express.js, React.js, Node.js**, and **Python**, with strong expertise in **FastAPI, Scikit-learn**, and data-driven intelligent systems. Developed end-to-end platforms like **WISE AI** to predict student performance and generate personalized recommendations using local educational datasets. Seeking to contribute to a dynamic tech team, continue growing as a developer, and build impactful digital products that solve real-world challenges.

Area of Expertise

Tailored for Data Scientist Roles

Artificial Intelligence & Data Science

- **Machine Learning:** Scikit-learn, Pandas, NumPy, Random Forest, Linear Regression
 - **Data Analysis & Visualization:** Matplotlib, Seaborn, Plotly, Chart.js
 - **NLP & Sentiment Analysis:** Text preprocessing, custom models via FastAPI
 - **Model Deployment:** FastAPI
 - **Tools:** Google Colab, VS Code, Git, Postman
 - **Database:** MongoDB
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Tailored for Full-Stack Developer Roles

Web Development

- **Frontend:** React.js, Chart.js, Responsive Design
- **Backend:** Node.js, Express.js, Flask, FastAPI
- **Real-Time Apps:** Socket.IO
- **API Development:** RESTful APIs for ML & user systems
- **Tools & Deployment:** GitHub, Postman
- **Database:** MongoDB

Tailored for AI Engineer Roles

AI & Deep Learning

- **ML Models:** Random Forest, Regression, Scikit-learn, NumPy
- **Model Serving:** FastAPI
- **Forecasting Systems:** Time-series predictions
- **Visualization:** Chart.js, Seaborn

Engineering Stack

- **MERN Stack:** MongoDB, Express.js, React.js, Node.js
- **Version Control:** GitHub
- **DevOps Basics:** VS Code, Postman

KEY ACHIEVEMENTS

- **Participated in Hackathon Code'x24 at NUML University, Mianwali** – Competed in a coding challenge, demonstrating problem-solving and teamwork skills.

EDUCATION

- **BS Software Engineering**

University of Mianwali — 2021 – 2025 (Expected)

PK Currently in 8th Semester CGPA: 3.38/4.00

- **Intermediate (FSc Pre ENGG)**

Superior College Mianwali — 2018 – 2020

- **Matriculation**

Govt. High School Mitha Khattak — 2017 – 2019

ADDITIONAL INFORMATION

Languages

English, Urdu, Saraiki, Pashto

Hobbies

Cricket, Coding, Graphic Design

PROJECTS

SmartRetail Insight – AI Dashboard for Shops & eCommerce

MERN Stack, Python, Flask, Chart.js, TailwindCSS / May 2025 – Present

Developed a full-stack AI-powered dashboard that forecasts future sales using a trained machine learning model and analyzes customer sentiment from reviews. The system integrates Flask-based microservices for prediction and NLP, features a responsive React UI styled with TailwindCSS, and includes advanced UX elements like drag-and-drop file upload, animated Chart.js visualizations, toast notifications, loading spinners, dark mode support, and smooth UI transitions. It also offers PDF/CSV export, input state persistence via localStorage, and allows users to select different forecast periods for flexible analysis.

WISE AI – Student Performance Prediction & Recommendation System

Python, FastAPI, React.js, Scikit-learn, MongoDB / JAN 2025 – Present

Developed an AI-powered educational platform that predicts student performance using machine learning and recommends personalized Urdu-English study topics. Integrated real-time REST APIs, visualizations (Chart.js), and MongoDB for storing prediction history.

MCQ Assessment System

C++ / Mar 2022

Designed a console-based system to create, manage, and conduct MCQ-based tests with result generation and scoring logic.

Online Bank Management System

Java (OOP) / Jul 2022

Built a desktop application supporting login, balance inquiry, withdrawal, deposit, and account handling with object-oriented design principles.

URL Shortener

C++, Data Structures & Algorithms / Feb 2023

Developed a CLI-based URL shortener using hashing and linked lists for fast lookup and storage of shortened URLs.

I hereby declare that all the information provided above is true and correct to the best of my knowledge and belief.

Date: _____

Place: _____

(Muhammad Asad Kamal Shah)