

Muhammad Zubair Khan

Jnr. Software Engineer

Software Engineer with practical experience in **AI, Machine Learning, NLP, data analysis**, and **full stack development**. Experienced in **Python development, Django, Flask, MERN stack** and software design documentation including **UML** and **SRS**. Background in building intelligent **AI web applications**.



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EDUCATION

Bachelor of Science in Computer Science Namal University Mianwali

11/2021 - 06/2025

3.11 CGPA

Courses

- Object Oriented Programing, Data Structures, Algorithms, Software Engineering, Parallel and Distributed Computing, Artificial Intelligence, Machine Learning, Discrete Mathematics, Operating System, Information & Cyber Security, Natural Language Processing

PERSONAL PROJECTS

AI Powered Interviewing System (FYP)

- Built a **real-time AI Powered interviewing platform** using **Django, React, REST APIs**, and **PostgreSQL**, enabling candidate evaluation through **technical response** analysis and **confidence assessment**.

FreshMart-An Online Grocery Store (02/2025 - Present)

- Built a **full-stack e-commerce platform** using **MERN** stack with features like product listing, cart, checkout, and order management, along with a **responsive UI** using **ReactJS** and **Tailwind CSS**.

AI Powered Mood Trackor Journal (09/2024 - 03/2025)

- Developed an **AI-based** journaling platform using **Django, React, DRF, MySQL**, and **LLMs** to analyze user mood via **NLP** and **Web Speech API**, offering **personalized song recommendations** and **visual mood history** through **interactive dashboards**.

COLLABORATIVE DOCUMENT EDITING SYSTEM (10/2023 - 02/2024)

- Developed a **real-time document editing application** for **LAN** environments using **Socket.io** for **multi-client synchronization** and a user-friendly **GUI** with **Tkinter(python)**.

Social Media Platform (Facebook) (03/2022 - 06/2022)

- Developed a **mini social media application** in **Python** using **Tkinter**, featuring core functionalities like posting, liking, and user connections.

Custom NATURAL LANGUAGE UNDERSTANDING(NLU) Pipeline (06/2024 - 10/2024)

- Implemented **intent classification** with **DistilBERT** and **entity recognition** using **RoBERTa** by creating **custom-labeled datasets** and building a complete **NLP** pipeline with **preprocessing, tokenization**, and **classification** for **Natural language understanding**.

Urdu Ligature Recognition with deep learning (04/2024 - 06/2024)

- Built and evaluated **neural networks** with **AlexNet, VGG16, and BLSTM** for accurate **Urdu ligature recognition**, complemented by completed **research** on model optimization and performance analysis.

AI-Driven Cyber Attack Prediction and Prevention

- Leading a research initiative on applying **machine learning models** for early **detection and prevention of cyber threats**.

SKILLS

Python JavaScript Django Flask React.js
Node.js Express.js Machine Learning
Deep learning Data Analysis Powerbi
Tensorflow Keras NLP Tailwind CSS
Bootstrap TkInter Seaborn Matplotlib
Postman Git REST APIs MongoDB
PostgreeSQL MYSQL Time Management
Team Collaboration

CERTIFICATES

Introduction to Python (CourseERA)

Gained foundational skills in Python programming, including data structures and problem-solving.

Inter-University Hackathon Participant

Collaborated in a competitive hackathon, developing innovative solutions and gaining hands-on project experience.

Machine Learning Course (Great leaning)

Completed an in-depth course on supervised and unsupervised learning techniques with practical data analysis projects

Cybersecurity Fundamentals Course (Greate Learning)

Acquired essential knowledge in network security, threat assessment, and digital protection best practices.

Event Manager – Namal Computing Society

Coordinated and managed tech-related events and workshops, enhancing organizational and leadership skills within the student tech society.

LANGUAGES

English
Professional Working Proficiency

Urdu
Native or Bilingual Proficiency

INTERESTS

Machine learning Model training

Developing Web Application

AI-powered applications

Technology Exploring