

MUHAMMAD ZUBAIR KHAN

Software Engineer

+923075270814

<https://github.com/ZubairKhan87>

zubair2021@namal.edu.pk

<https://www.linkedin.com/in/zubair-khan>

PROFESSIONAL SUMMARY

Software Engineer with practical experience in developing AI-based web applications, focusing on Machine Learning, NLP, and Data Analysis. Skilled in Python, Django, Flask, and the MERN stack, with a strong understanding of software design documentation, including UML and SRS.

EDUCATION

Namal University

Bachelor of Science in Computer Science

Mianwali, Pakistan

Expected June 25

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

TECHNICAL SKILLS

- **Programming Languages:** Python, JavaScript
- **Machine Learning & AI:** TensorFlow, Scikit-learn, PyTorch, Hugging Face, Keras
- **Web Development:** Django, Flask, Django Rest Framework, React.js, Bootstrap, SQL, NoSQL, Node.js, TailwindCSS
- **Data Analysis Tools:** PowerBI, Jupyter, Google Colab, PyCharm
- **Technologies:** Generative AI, Machine Learning, NLP, Image Processing
- **Other Tools:** Git, GitHub, MySQL, PostgreSQL, MongoDB, Postman, Tkinter, Figma, Docker

PROJECTS

AI-Powered Interviewing System (FYP)

Sep 2024 - April 2025

- Developed 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

Dec 2024 - Marr 2025

- 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 Tracker Journal

Nov 2024- Jan 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.

AI-COPILOT FOR PERSONALIZED LEARNING

Mar 2025 - Continue

- Working on An AI-powered copilot for personalized learning that generates quizzes, evaluates student performance, provides personalized help, and tailored feedback based on teacher uploaded educational content with Django, postgresql & React.js.

COLLABORATIVE DOCUMENT EDITING SYSTEM

Dec 2023 - Feb 2024

- Developed a real-time document editing application for LAN environments using Socket.io for multi-client synchronization.

URDU TEXT CLASSIFICATION

Jun 2024 - Aug 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.

CUSTOM NATURAL LANGUAGE UNDERSTANDING(NLU) PIPELINE

Sep 2024- Nov 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.

AI-DRIVEN CYBER ATTACK PREDICTION AND PREVENTION

Dec 2024 - Feb 2025

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

CERTIFICATIONS

- Frontend Development - LinkedIn
- Machine Learning - Great Learning
- Deep Learning Specialization - Coursera
- Inter-University Hackathon Participant
- Event Manager – Namal Computing Society

LANGUAGES

- English (Professional Working Proficiency)
- Urdu (Native or Bilingual Proficiency)

INTEREST

- Machine Learning model training
- AI-Based Web Application Development
- Innovative technologies
- Solving scalability problems