Muhammad Faizan

AI Developer

AI developer with hands-on experience in ML, DL, NLP, CV, and web development. I love building solutions that create real impact.

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EDUCATION

Bachelor of Science in Computer Science
Namal University Mianwali

11/2021 - 06/2025   *3.48 CGPA*

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

SKILLS

Python   Git   Machine Learning   Deep Learning   NLP   Computer Vision   CNN   RNN   Data Science   Tableau   Powerbi   SQL   Java Script   React.js   Firebase   Django   Flutter   Custom OCR

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.

Urdu Ligature Recognition with deep learning
(05/2024 - 06/2024)
- Built a neural network using AlexNet, VGG16, and BLSTM for Urdu ligature recognition, achieving high accuracy.

Networking Tool Development (01/2024 - 02/2024)
- Created an interactive tool for designing and configuring network topologies with validation and simulation features.

Real-Time Magic Spell Classifier (10/2024 - 12/2024)
- Created software for real-time data collection of wand movements, compiling a custom dataset with 25 spells and 100 frames per spell for classification.

Social Media Platform (06/2022 - 07/2022)
- Built a platform with posting, liking, and connection features from scratch in python

AI Based Pacman Game (02/2024 - 03/2024)
- Implemented an AI-driven Pacman game using Pygame, with SQLite for storing game data and high scores

BERT Fine Tuning (07/2024 - 08/2024)
- Fine-tuned BERT on customized (self collected data) for high-accuracy intent classification in NLP tasks.

PSL Database design and implementation
(01/2023 - 02/2023)
- Developed an efficient database system for managing Pakistan Super League (PSL) data across all seasons.
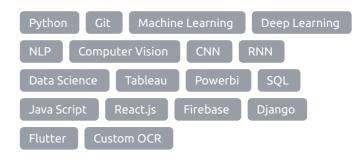
Customer Lifetime Value (CLV) Forecasting
(01/2023 - 02/2023)
- Developed a predictive model for forecasting Customer Lifetime Value (CLV), utilizing advanced regression techniques to predict customer behavior and improve retention strategies.

Examination Cheating Detection System
(08/2024 - 09/2024)
- Developed an innovative system for predicting cheating in record-based exams, with machine learning techniques to detect unusual patterns in grades.

RESEARCH WRITINGS

Role of AI in Cyber Attack Predictions and Prevention
Led a research initiative on utilizing AI models for predicting and preventing cyber-attacks, contributing to the development of proactive security systems through machine learning-based threat detection.

How can we enhance OCR Capabilities?
Conducted research focused on improving Optical Character Recognition (OCR) accuracy, exploring advanced techniques to increase recognition efficiency and robustness in various contexts.

ML-Based Detection of Academic Dishonesty
Applied supervised learning techniques to academic performance datasets to detect irregular grading patterns and potential exam cheating cases.

Comparative Study of Activation Functions in Deep Neural Networks
Evaluated the performance impact of ReLU, Leaky ReLU, GELU, and Swish functions in convolutional and recurrent architectures on various AI tasks.

Comparative Analysis of Transformer Models vs Traditional NLP Techniques
Conducted a detailed evaluation of transformer-based models versus traditional approaches. Focused on natural language understanding tasks, analyzing improvements in contextual accuracy, generalization, and performance across diverse datasets.

LANGUAGES

English
Full Professional Proficiency

Urdu
Full Professional Proficiency

INTERESTS

Generative AI   Solving scalability problems   Innovative technologies   Cloud computing solutions