

Muhammad Tayyab

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PROFESSIONAL SUMMARY

Accomplished AI/ML engineer with 1 year of hands-on experience in deep learning, computer vision, data science, and natural language processing. Proficient in Python, Django, TensorFlow, PyTorch, and cutting-edge ML frameworks. Demonstrated ability to solve complex problems, conduct innovative research, and work collaboratively. Committed to delivering high-impact AI solutions while consistently exceeding expectations.

EDUCATION

The Islamia University of Bahawalpur, Punjab, Pakistan

Bachelors in Artificial Intelligence

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TECHNICAL SKILLS

Programming Languages:	Python, MATLAB
Deep Learning Frameworks:	TensorFlow, PyTorch, Keras
Libraries & Tools:	NumPy, Pandas, Scikit-learn, OpenCV, NLTK
Web Frameworks:	Django, Django Rest Framework (DRF)
Version Control:	Git, GitHub
Database:	PostgreSQL, MySQL, SQLite
Soft Skills:	Problem-solving, Team collaboration, Communication, Time management

PROFESSIONAL EXPERIENCE

Associate Developer

Fiverr (Remote project collaboration), Lahore, Pakistan

Duration: 6 Moths (Ongoing)

As an Associate Developer, I gained substantial experience working alongside a senior full-stack developer within a collaborative team environment. This project, sourced through Fiverr from a U.S.-based client (JB), focused on developing a social media application.

key responsibilities :

- Managing URL configurations and views to ensure smooth-navigation and functionality.
- Contributing to the backend development to support the integration and interaction between different components.

PROJECTS

Brain Tumour Detection System

- Utilised Convolutional Neural Networks (CNNs) for image feature extraction and classification.
- Built a web-based Flask application and an Android app to allow users to upload MRI scans for real-time tumour detection.
- Achieved high accuracy in tumour classification through rigorous model training and evaluation.

Humanoid Robot with Locomotion, Talking, and Object Detection (Final Year Project)

- Implemented locomotion algorithms for smooth and stable walking.
- Enabled speech synthesis for interactive communication with human users.
- Integrated image processing techniques for real-time object detection and recognition.
- Designed and tested using a combination of hardware (sensors, motors) and software (machine learning models and control systems).

E-commerce Platform

Technology Used: Python, Django, SQLite, Javascript

- Developed & created a full-stack e-commerce platform using Python, Django, HTML, CSS, JavaScript, Bootstrap, and SQLite, significantly improving the user experience and functionality (Full-Stack Development).
- Implemented secure user authentication and authorization mechanisms, ensuring high-level security and compliance with industry standards, leading to a reduction in unauthorised access (Security).
- Engineered a dynamic shopping cart system with automatic price updates, enhancing the overall shopping experience and driving an increase in conversion rates (User Experience).
- Integrated Stripe for secure payment processing, streamlining transactions and reducing payment processing time.
- Enhanced customer communication through SMS notifications for order confirmations and updates, increasing customer satisfaction and reducing inquiry response time by 25% (Customer Engagement)
- planned an intuitive admin interface for managing products, orders, and user information (User Interface Design).