Asad Ali

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Gender: Male   **Nationality:** Pakistani

ABOUT ME

Experienced Python Developer with over 5 years of experience in developing and deploying cutting-edge applications and systems. Specialized in leveraging AI/ML technologies to build advanced machine learning models, computer vision solutions, custom chatbots, and NLP applications. Proficient in full-stack development with Python-based stacks, front-end frameworks, and databases. Expert in utilizing APIs to enhance functionality and streamline workflows. Strong expertise in data analysis, preprocessing, and GPU-accelerated fine-tuning. Collaborative team player with excellent communication skills, adept at translating complex business requirements into tailored AI solutions. Passionate about staying updated with the latest AI/ML advancements and committed to driving business success through innovative solutions.

EDUCATION AND TRAINING

[2024 – 2026]

Master of Science Artificial Intelligence (AI)

National University of Technology (NUTECH)   https://nutech.edu.pk/

City: Islamabad | **Country:** Pakistan |

[2018 – 2022]

Bachelor of Science Computer Engineering (CEN)

National University of Technology (NUTECH)   https://nutech.edu.pk/

City: Islamabad | **Country:** Pakistan |

WORK EXPERIENCE

[03/2024 – Current]

Software Engineer (AI / ML / CV)

Max Tech

City: Islamabad | **Country:** Pakistan

[09/2023 – 02/2024]

AI & Machine Learning Engineer

Centrox AI

City: Islamabad | **Country:** Pakistan

- Engineered custom chatbots with advanced prompt engineering, implemented GPU-accelerated fine-tuning for optimal performance. Developed seamless pipelines for adaptability and seamless operation.
- Led innovative computer vision projects, utilizing cutting-edge models for object detection and recognition.
- Created an intuitive user-friendly front-end interfaces for seamless operation in all projects.

[06/2023 – 09/2023]

AI & Machine Learning Intern

Islamabad Capital Territory (ICT) Police

City: Islamabad | **Country:** Pakistan

- Interned at ICT Police as a AI / ML Developer specializing in Computer Vision applications.
- Developed 'ANPR,' 'Weapon Detection,' and 'Fire Detection' systems with custom model training.
- Created an intuitive user-friendly front-end interface for seamless operation in all projects.

[06/2023 – 07/2023] **Python Developer Intern**

Codeaza Tech Pvt. Ltd

City: Rawalpindi | **Country:** Pakistan

- Interned at Codeaza Tech Pvt. Ltd. as a Python Developer specializing in web scraping and automation.
- Developed efficient web scraping solutions and automated processes, contributing significantly to data acquisition.
- Streamlined workflows for various projects, enhancing productivity and efficiency.

[07/2021 – 09/2021] **Computer Architecture Intern**

National Electronics Complex of Pakistan (NECOP)

City: Islamabad | **Country:** Pakistan

- Contributed to the development of "logic locking," a hardware obfuscation technique for enhanced electronic device security.
- Led design and implementation efforts, ensuring effectiveness and reliability.
- Collaborated with engineers and researchers to successfully integrate the hardware and provided robust protection against tampering and unauthorized access.

LICENSES & CERTIFICATIONS

[09/2023] **Google Crowdsource Learning Community Program Graduate**

Certified Google Crowdsource Learning Community Program, showcasing dedication to advancing diversity and representation in ML datasets. Demonstrated proficiency in engaging with the Crowdsource community, contributing to meaningful projects, and achieving milestones. Enthusiastic about further leveraging ML knowledge to drive positive impact in the tech industry.

Link: https://drive.google.com/drive/folders/1aZPGVgN8PJy6oJVHXSFUONW0AU6827h6?usp=drive_link

[03/2023] **Registered PEC Engineer**

Certified PEC Registered Computer Engineer, recognized by the Pakistan Engineering Council for expertise in computer engineering and adherence to professional engineering standards.

[02/2023] **IBM Digital Badge Achievement (IBM AI Engineering Professional Certificate)**

Link: https://www.credly.com/badges/8c74053b-f05d-4089-9669-5427061a61a2/linked_in_profile

[02/2023] **IBM AI Engineering Specialization**

Link: https://www.coursera.org/account/accomplishments/specialization/certificate/49TVSXYU3QVF

[02/2023] **AI Capstone Project with Deep Learning**

Link: https://www.coursera.org/account/accomplishments/certificate/SNV8K4ZBQYW5

[02/2023] **IBM Digital Badge Achievement (Deep Learning with Tensorflow)**

Link: https://www.credly.com/badges/763fde28-13bd-4e22-8d72-420d211f1e04/linked_in_profile

[02/2023] **Building Deep Learning Models with TensorFlow**

Link: https://www.coursera.org/account/accomplishments/certificate/SQ8QNNQ9P4CG

[02/2023] **IBM Digital Badge Achievement (Deep Neural Networks with PyTorch)**

Link: https://www.credly.com/badges/1edb0884-cab5-48a1-9f9a-6b566e9274f8/linked_in_profile

[02/2023] **Deep Neural Networks with PyTorch (with Honors)**

Link: https://www.coursera.org/account/accomplishments/certificate/KPVJKCVX82QV

[01/2023] **IBM Digital Badge Achievement (Computer Vision and Image Processing Essentials)**

Link: https://www.credly.com/badges/d275c455-bc0e-4406-9435-943a3716cc1b/linked_in_profile

[01/2023] **Introduction to Computer Vision and Image Processing**

Link: https://www.coursera.org/account/accomplishments/certificate/D4M5D2BBQTRP

[01/2023] **IBM Digital Badge Achievement (Deep Learning Essentials with Keras)**

Link: https://www.credly.com/badges/176c18a1-56c9-4b1d-a4b5-bc46c1c584e5/linked_in_profile

[01/2023] **Introduction to Deep Learning & Neural Networks with Keras**

Link: https://www.coursera.org/account/accomplishments/certificate/VLJF9NZZRW9H

[01/2023] **IBM Digital Badge Achievement (Machine Learning with Python)**

Link: https://www.credly.com/badges/faefe4b8-bd84-4d03-8750-34bc96900328/linked_in_profile

[01/2023] **Machine Learning with Python (with Honors)**

Link: https://www.coursera.org/account/accomplishments/certificate/ZD5CQ9MATN7P

PROJECTS

Integrated Healthcare Management System with AI-driven Virtual Assistant

Designed and developed an Integrated Healthcare Management System (MedAssist) with an AI-driven Virtual Assistant, utilizing advanced NLP techniques to simulate patient-doctor interactions, diagnose illnesses, and recommend treatments. Implemented a comprehensive database and RESTful APIs for efficient patient data management, and created an intuitive front-end interface for a seamless user experience.

Link: https://drive.google.com/file/d/1z6huDAtiLY_BXsOcoepABGwAjPnAMd2q/view?usp=drive_link

Smart Alarm-Triggered Fire Detection System for Enhanced Security

Designed and implemented a cutting-edge Smart Alarm-Fire DETection System (SAFDET), leveraging custom model training to promptly detect fire and trigger alarms for enhanced security measures. Additionally, created an intuitive user-friendly front-end interface for seamless operation.

Link: https://drive.google.com/file/d/1VlmqLOss8o4_mGbqLI2LBiglekbI0hxv/view?usp=drive_link

Smart Alarm-Triggered Weapon Detection System for Enhanced Security

Designed and implemented a cutting-edge Smart Alarm-Weapon DETection System (SAWDET), leveraging custom model training to promptly detect weapons and trigger alarms for enhanced security measures. Additionally, created an intuitive user-friendly front-end interface for seamless operation.

Link: https://drive.google.com/file/d/1drZ8cVg6BxlRTUsRnYEHylmzEar9njTm/view?usp=drive_link

Intelligent Vehicle Number Plate Detection and Recognition System

Designed and implemented a comprehensive ANPR (Automatic Number Plate Recognition) system with custom model training. Integrated OCR (Optical Character Recognition) for precise vehicle registration number extraction and saved the data into an SQL database. Additionally, created an intuitive user-friendly front-end interface for seamless operation.

Link: https://drive.google.com/file/d/16897RSxvrdMPdYbZ-lGh_8Nua2QdC33d/view?usp=drive_link

HONOURS AND AWARDS

[04/2023]

Winner of the 3rd Engineering Capstone Expo-2022 Award by the Pakistan Engineering Council
Awarding institution: Issued by Pakistan Engineering Council (PEC)

Recipient of the 3rd Engineering Capstone Expo-2022. Developed an award-winning project encompassing facial recognition, face mask detection, weapon detection and safety helmet detection by training of customized models utilizing the NVIDIA Jetson Nano. The Oak camera played a pivotal role in real-time surveillance, while instantaneous alarms were triggered upon the detection of any target.

[03/2022]

Project Exhibition Winner (GIKI NEO-22) Awarding institution: Issued by Ghulam Ishaq Khan Institute of Engineering Sciences and Technology (GIKI)

Secured top honors at GIKI NEO-22 Project Exhibition, unveiling a a cutting-edge project that integrated intrusion detection utilizing Oak camera and Python programming, highlighting expertise in innovative security solutions.

[02/2020]

NUTECH Career Acceleration Program (NCAP) Awarding institution: Issued by National University of Technology (NUTECH)

Engaged in NUTECH Career Acceleration Program (NCAP), leveraging expert-led workshops and training sessions to foster personal development, refine career skills, and cultivate a competitive edge for future professional endeavors.

My Digital Skills

AI/ML (Artificial Intelligence/Machine Learning) | Bootstrap | CI/CD | Cloud & Container Platforms (AWS, Google Cloud, MS Azure, Kubernetes, Docker) | Computer Vision | Data Science: Machine Learning, Data Analysis, Data Exploration, Data Wrangling, Data Visualization | Django | FastAPI | Flask API | Frontend Development (HTML, CSS, JavaScript, Bootstrap, React, Tkinter, Streamlit, Gradio) | Git | GPU Accelerated Fine tuning | GraphQL | Hugging Face | JavaScript | Keras | Large Language Models | LangChain | Linux | Microsoft Office | MongoDB | MySQL | Natural Language Processing | OpenCV | Pandas | Postman | PostgreSQL | Project Management & Project Development | PyTorch | Python Programming | Remote working tools (Slack, Teams, Zoom, Meet, Discord) | Research & Development | RESTful APIs | Scikit-learn | SciPy | Seaborn | Streamlit | Swagger | TensorFlow | Web Scraping & Automation