

Huzaifa Khan

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Data Science | Machine Learning | Artificial Intelligence

As an AI/ML practitioner, I am dedicated to exploring and applying various domains of artificial intelligence. With a strong foundation in identifying and understanding complex problems, I excel at devising innovative solutions using advanced AI techniques. My expertise spans across different areas, allowing me to tackle diverse challenges and drive impactful outcomes through AI.

WORK EXPERIENCE

Artificially Intelligent Radiology (AiR) - Germany

Oct/2023 - Present

Machine Learning Associate

- Product-based Machine Learning Associate at AiR, working on the AI-powered CXR Diagnostic System to streamline radiologist workflow through AI automation.
- Utilized PyTorch for AI/ML initiatives in radiology.
- Specialized in transfer Learning and fine-tuning pre-trained image classification models like DenseNet121, ResNet50, ImageNet, VGG16, EfficientNet and GoogLeNet.
- Currently optimizing algorithms for chest X-ray pathology classification, addressing 14 pathologies like Pneumothorax, Cardiomegaly, Nodule, Mass, Pleural Effusion etc.
- Engaged in cross-functional teamwork to drive AI-driven healthcare solutions.
- Collaborated with domain experts to incorporate clinical insights into models.

Google Developers Student Club - UIT - Karachi, PK

Oct/2023 - Present

Data Science Team Lead

- Organize seminars and workshops on diverse data-centered topics, empowering student learning.
- Served as a speaker at UIT University for a session and workshop based on "Essentials of Data Science".
- Hosted collaborative webinar on "Cloud Seekho S5", Google, enhancing knowledge sharing.
- Led team project for Google Solution Challenge 2024.
- Establish partnerships with industry organizations to provide real-world opportunities.

Coders Cave - Remote

Oct/2023 - Nov/2023

Data Science Intern

- Focusing on data cleaning, exploratory data analysis, and building predictive models.
- Contributed to team discussions and problem-solving sessions, honing skills in data wrangling, statistical analysis, and machine learning algorithms.

EDUCATION

UIT - NED - Karachi, Sindh

Bachelor of Science – Computer Science

Oct 2020 – Oct 2024

PROFESSIONAL SKILLS

Data Handling | Data Preprocessing | CLI | Machine Learning | Predictive Modeling | Deep Learning | Transfer Learning | Reinforcement Learning | Model Evaluation and Validation | Conditional Logic | File and Package Management | Computer Vision | Natural Language Processing (NLP) | Sentiment Analysis | Text Mining | Image Processing | DICOM Handling | Medical Image Analysis | OpenAI'S APIs | Feature Engineering | Data Preprocessing | Data Wrangling | ETL (Extract, Transform, Load) | AI Product Development | Algorithm Optimization | Fine Tuning | Flask | PyTorch | Scikit-learn | Hugging Face | OpenCV | Torch Vision | Postman | API Development | Docker | AWS | Version Control (Git) | Agile Methodologies | MLOps Practices

PROJECTS

AI Powered Chest X-ray Diagnostic System

Nov/2023 - Present

Tech Stack: PyTorch, Flask, HTML/CSS, JavaScript, Hugging Face, Python, Torch Vision, OpenCV, PyDicom, Deep Learning Models

Description: Developed an AI-powered web application for accurate diagnosis of chest X-ray images, enhancing radiologist workflow efficiency.

Legal Insight AI Assistant

May/2024

Tech Stack: Natural Language Processing (NLP), Gemini API, HTML/CSS, JavaScript, Flask

Description: Created an AI-powered legal assistant integrating NLP models to provide legal insights and support.

Online Hate Speech Detection Platform

June/2024

Tech Stack: Natural Language Processing (NLP), scikit-learn, Flask, HTML/CSS, JavaScript

Description: Implemented a web-based AI model to detect and flag hate speech in online content, contributing to safer online communities.

Plant Disease Detection System

March/2024

Tech Stack: TensorFlow Lite, Flutter, Python, Dart

Description: Developed a mobile app to identify plant diseases from images, aiding farmers in disease management and crop protection.

Fabrico: Automated Fabric Defect Detection

March/2024

Tech Stack: Deep Learning, AC-YOLOv5, Python

Description: Developed an automated system to detect fabric defects using AC-YOLOv5, improving quality control in the textile industry.

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Helmet Compliance Detection System

Feb/2024

Tech Stack: YOLOv5, Python

Description: Developed an AI system using YOLOv5 to detect helmet usage in real-time, enhancing road safety and ensuring compliance with traffic regulations.

Credit Card Fraud Detection System

Nov/2023

Tech Stack: Machine Learning, Python, scikit-learn, Flask

Description: Engineered a solution using anomaly detection algorithms to identify fraudulent transactions in real-time, ensuring financial security.

Movies Recommendation Engine

Oct/2023

Tech Stack: Machine Learning, Python, collaborative filtering

Description: Built a recommendation engine to suggest movies based on user preferences, enhancing user experience on an entertainment platform.

CERTIFICATIONS

MLOps Concepts - DataCamp

Mar/2024

Developing Machine Learning Model for Production - DataCamp

Apr/2024

MLOps Deployment and Life Cycling - DataCamp

CI/CD for Machine Learning - DataCamp

Explore and Analyze Data with Python - Microsoft

Sep/2023

Python for Data Science, AI, and Development - IBM

Sep/2023

Get and Transform Data with Power BI - Microsoft

Aug/2023

LANGUAGE COMPETENCIES

- Urdu: Native Language
- English: Fluent (speaking, reading, writing, listening)
- IELTS Overall Score: 6.5