Arham Khan

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EDUCATION

Mehran university of art science and technology Hyderabad *Bachelor's in Computer Science*   *Graduation Date: Mar 2026*

WORK EXPERIENCE

ITsolera PVT LTD   **Islamabad, Pakistan**

AI Project Base Associate   *Oct 2024 - Present*

- Collaborating on AI projects, designing and deploying machine learning models for real-world applications.
- Developing and optimizing algorithms for predictive analytics, computer vision, and NLP tasks.
- Coordinating with cross-functional teams to integrate AI solutions into existing systems for scalability.

ITsolera PVT LTD   **Islamabad, Pakistan**

Deep Learning Intern Lead   *Jul 2024 - Aug 2024*

- Led a team of interns to develop deep learning models for image recognition and NLP task
- Managed project timelines and supervised model training and evaluation.
- Mentored interns, providing guidance on deep learning algorithms and frameworks.

PROJECT EXPERIENCE

Personal Project

AI Based Breast Cancer Classification system

- Developed a deep learning model to classify breast tumors as Benign, Malignant, or Normal.
- Applied Convolutional Neural Networks (CNN) for image feature extraction from mammograms.
- Ensured scalability and accuracy for industrial-grade deployment in clinical settings.

Personal Project

AI-based plagiarism detection system

- Developed a plagiarism detection system to distinguish between AI-generated and human-written text.
- Utilized Bidirectional LSTM for advanced text analysis and feature extraction.

Freelance Project

AI Based Wheat Disease Detection System

- Developed a wheat disease classification system using YOLOv11 for real-time object detection and classification.
- Implemented Particle Swarm Optimization for unique hyperparameter tuning, enhancing model performance.
- Achieved high accuracy in detecting and classifying wheat diseases in various agricultural environments

Personal Project

AI Based Tumor Detection System

- Developed an AI-based tumor detection system utilizing YOLOv8 for real-time image detection.
- Implemented YOLOv8 for high-accuracy tumor localization in medical imaging datasets.
- Optimized model performance to achieve precise and efficient tumor detection in clinical environments.

SKILLS

Programming Languages	Python, Java
Data Science	Pandas, NumPy, Scikit-learn
	Data Visualization: Matplotlib, Seaborn
Machine Learning	Supervised, Unsupervised, Reinforcement Learning
	Scikit-learn, TensorFlow
Natural Language Processing (NLP)	RNN, LSTM, Bidirectional LSTM, GRU, Transformers, BERT, LLM
	Hugging Face, State-of-the-Art (SOTA) techniques
	Sentiment Analysis, Machine Translation, Text Summarization, Q/A Chatbots
Computer Vision	CNN, RCNN, Faster RCNN, YOLO, TensorFlow Object Detection (TFOD)
	Image Classification, Image Segmentation, Object Detection, Transfer Learning
Web Development	Flask, HTML, CSS, Streamlit
Deployment	Docker, Model Deployment
Version Control	Git, GitHub