



ARQAM IMTIAZ

Machine Learning Engineer

I'm an AI and robotics professional specializing in production computer vision and deep learning systems, spanning data strategy, model training, optimization, and scalable deployment for real-world applications.

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Shenzhen, China

5th April 1993

Pakistani

[linkedin.com/in/arqamimtiaz](https://www.linkedin.com/in/arqamimtiaz)

github.com/arqam-ai

arqam-ai.github.io/resume

Core AI Stack

Tools

Python C/C++ PyTorch Pytorch Lightning Tensorflow
TensorRT Matlab Git Docker Linux OpenCV
ONNX MLflow

End-to-End ML Systems

Problem Framing & Solution Design
Data Strategy & Pipeline Design Experimentation
Evaluation & Benchmarking Model Deployment
Monitoring & Lifecycle Ownership

Computer Vision Systems

Real-Time Visual Perception Multi-Modal Scene Understanding
Spatial & Temporal Vision Models Multi-Camera Systems
Production CV Pipelines

Model Optimization

Model Quantization Inference Performance Optimization
Edge Deployment

Data Operations

Auto-Labeling Pipelines Active Learning Workflows
Synthetic/Augmented Data Strategies Data Quality Auditing
Scalable Dataset Curation Hard Example Mining

Engineering Leadership

Stakeholder Communication Cross-Functional Execution
Code Review & Mentoring Technical Ownership & Roadmapping
Debugging Profiling & Production Support

Experience

Algorithm Engineer

Enhanced Robotics (Tenniix Official)

12/2025 - Present

Shenzhen, China tenniix.ai

- Led the visual perception development for real-time tennis AI systems covering the complete pipeline from data auto-labeling, model training, edge deployment, monitoring, and continuous retraining.

Algorithm Engineer

Benign Innovations (Co-founding Startup)

10/2024 - 12/2025

Shenzhen, China

- Led visual perception R&D for tennis analytics and autonomous robotics use cases with focus on practical model deployment.

Algorithm Engineer

12/2023 - 10/2024

广东灵锶智能科技有限公司 LinxAI Intelligent Technology Co., Ltd.

Shenzhen, China gdlinxai.com/en

- Worked on deep reinforcement learning for quadruped locomotion with simulation to robot (Sim to Real) transfer and robust terrain control.

Deep Learning Engineer

05/2021 - 10/2023

深圳鹏行智能有限公司 XPENG Robotics

Shenzhen, China xpeng.com

- Contributed to autonomous driving perception algorithms in the vision and perception department including model development and optimization workflows.

Research Assistant

11/2020 - 04/2021

南方科技大学 Southern University of Science and Technology

Shenzhen, China sustech.edu.cn/en

- Researched 3D geometric scene parsing with work spanning mesh semantic segmentation and point cloud object detection.

Algorithm Engineer

10/2019 - 09/2020

罗普特科技集团股份有限公司 ROPEOK TECHNOLOGY GROUP CO.,LTD.

Xiamen, China ropeok.com

- Developed computer vision solutions for real-time person re-identification and human attribute recognition in multi-camera scenarios.

Design Engineer

01/2017 - 08/2017

Pakistan Aeronautical Complex

Kamra, Attock, Pakistan pac.org.pk

- Supported smart display and EEG based signal analysis initiatives with an applied research to engineering approach.

Education

Master of Engineering in Computer Technology Xiamen University

09/2017 - 06/2019 Xiamen, China

- Thesis: Deep discriminative features learning with Multi-level Network (MLN) for Person Re-Identification.

Bachelor of Science in Electrical Engineering COMSATS University

09/2012 - 06/2016 Islamabad, Pakistan

- Final Year Project: Shooting Target Accuracy Measurement System for Shooting Range using Digital Image Processing.

Languages

Urdu/Hindi Native Speaker

English Highly proficient

Chinese Working knowledge