

PERSONAL INFORMATION

Aryan Qureshi



+92 341 963 2933 / +92 333 1506795



aryannqureshi1@gmail.com

PROFESSIONAL SUMMARY

Computer Science Graduate specializing in AI, computer vision, and machine learning. Skilled in developing and deploying end-to-end ML solutions, including feature engineering, model training, and application integration. Proficient in Python, R, SQL, and data analysis, with hands-on experience in interactive interfaces and real-time detection systems. Proven ability to deliver client-focused, data-driven solutions.

PROFESSIONAL EXPERIENCE

AI INTERN

Devnox Solutions Software House

Jan. 2025- July 2025

- **Project Title: Medical Image Classification: Bone Fracture Detection using PCA and SVM**
 - Designed an AI powered system to detect & classify X-ray images as fractured or non-Fractured.
 - Applied Principal Component Analysis for dimensionality reduction and feature extraction.
 - Trained a Support Vector Machine (SVM) classifier to classify fractures and non-fractured cases.
 - Integrated LIME to enhance model transparency and build trust by explaining AI decision making.
 - Documented model pipeline and data handling procedures in accordance with compliance protocols.
 - Built an interactive interface using Streamlit.
 - Delivered a complete solution to the client.

EDUCATION & CERTIFICATIONS

BACHELORS OF STUDIES IN COMPUTER SCIENCE

CGPA: 3.92/4

Hazara University Mansehra, KPK, Pakistan

Graduation: July 2025

- **Thesis Title: Computer Vision based Human Fall Detection and Alert System**
 - Applied a CNN-based model, YOLO, implementing feature extraction and pooling layers.
 - Created and annotated a custom dataset tailored for human fall detection scenarios.
 - Optimised YOLOv10n training on Google Collab (GPU) to enhance accuracy and minimise false positives under resource constraints.
 - Successfully deployed the trained model locally and integrated it with an application to trigger real-time alarms.
 - Demonstrated expertise in object detection, dataset engineering, model training/fine-tuning, and practical application deployment.
 - Addressed ethical use and reliability of AI for human safety applications.

CERTIFICATIONS

- Machine Learning Specialization
- Python Data Structures
- Mathematics for Machine Learning: Linear Algebra
- Programming for Everybody (Python)
- Google Data Analytics Professional Certificate
- Introduction to R Programming for Data Science
- Get Started with Presentation Applications: PowerPoint
- Work Smarter with Microsoft Excel
- Business Writing

TECHNICAL SKILLS

- **Programming Languages:** Python, R, SQL
 - **Frameworks/Libraries:** Lime, Optuna, TensorFlow, Sickitlearn, NumPy, OpenCV, ggplot2, Dplyr.
 - **Development Tools:** Git, GitHub, VS Code, PyCharm, R studio, Google Collab, Google Big Query
 - **Machine Learning:** Machine Learning Concepts, Machine Learning Pipelines, Model Training, Model Deployment, Model Evaluation, ANN, CNN, SVM, PCA
 - **Data Handling:** Data Preprocessing, Data Wrangling, Data Analysis, Data Modeling, ETL Processes
 - **Other:** FastAPI, JSON, AWS basics, Data Analysis, Data Visualization
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