

# ABDUL AHAD RAZA

## COMPUTER VISION ENGINEER

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### SUMMARY

Practical engineer with a background in software development, currently focused on computer vision through hands on AI projects. I aim to build smart, reliable systems that solve real-world problems by combining technical skills with a strong sense of purpose and innovation.

### PROFESSIONAL EXPERIENCE

#### Growup Tech Solutions | Machine Learning Intern

May 2024 – Aug 2024

- Contributed to the development, training, and evaluation of machine learning models, with a focus on data preprocessing and algorithm optimization.
- Collaborated with team members to integrate AI-driven solutions and enhance model performance and deployment efficiency.

#### Interactive Speech Therapist | Machine Learning Intern

Dec 2023 - June 2024

- Learned Python programming and gained hands-on experience with TensorFlow for training custom datasets, as well as using YOLO for object detection with both pretrained models and datasets trained from scratch.

### PROJECTS

#### AI Based Fitness Training Android App

- AI Based Fitness Training Android App that provides real-time exercise feedback using computer vision and on-device machine learning. By detecting body keypoints and applying a geometrical analysis, the app guides users on proper form during workouts.
- Tools used:** Kotlin, TensorFlow Lite, and JSON for local data storage
- [Demo Video](#)

### SKILLS

- Frameworks & Libraries: .NET, TensorFlow, MediaPipe, Eel (Python desktop apps with web frontends)
- Programming Languages: Python, Java, Kotlin, C#
- Machine Learning: YOLO object detection model training
- Version Control: GitHub

### EDUCATION

#### Bachelor of Science in Computer Science

National University of Modern Languages (NUML)

Sep 2021 - Aug 2025

#### Intermediate

Dr AQ Khan College of Science and Information Technology Harley Campus

Sep 2019 - July 2021

#### Matric

F.G Boys High School No.1 Tariqabad Rawalpindi Cantt Matriculation

June 2017 - July 2019

### ADDITIONAL INFORMATION

- Languages:** English, Urdu
- Certifications:** Google Soft Skills Program, Hands-On AI: Computer Vision Projects with Ultralytics and OpenCV, Programming for Everybody (Getting Started with Python)
- Awards/Activities:** Participated in GitHub101 Workshop by IEEE Student Branch, NUML Rawalpindi (2024).