

# Qaiser Abbas

Lahore, Pakistan

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## Education

### M.S in Computer Science

Lahore, Pakistan

UNIVERSITY OF ENGINEERING AND TECHNOLOGY LAHORE, LAHORE

3.78/4.0 CGPA – 94.25%

2018 - 2020

THESIS: ACRAL LENTIGINOUS MELANOMA DETECTION USING DERMOSCOPIC IMAGES AND CONVOLUTIONAL NEURAL NETWORKS

### B.S in Information Technology

Sargodha, Pakistan

UNIVERSITY OF SARGODHA, SARGODHA

3.63/4.0 CGPA – 90%

2014 - 2018

FINAL YEAR PROJECT: DETECTION AND CLASSIFICATION OF EMERGENCY VEHICLES

## Experience

### Bioinformatics Research Lab, Al-Khawarizmi Institute of Computer Sciences

Lahore, Pakistan

RESEARCH ASSISTANT

Jan 2020 - Oct 2020

- Worked with Dr. Muhammad Usman Ghani Khan on detection of rare and lethal skin cancer Acral Lentiginous Melanoma.
- In this research project we developed a system which detects and predicts the probability of acral melanoma in dermoscopic images.
- Designed a DCNN architecture from scratch in Keras and Tensorflow to classify the skin cancer

### Wizdojo Technologies, National Incubation Center

Lahore, Pakistan

COMPUTER VISION INTERN

Aug 2019 - Oct 2019

- Worked with Dr. Umair Mateen Khan in his startup as a Computer Vision and developed a vehicles registration plate detection system.
- Collected, annotated and processed data and trained a custom deep learning model to detect and segment the vehicle registration plate.
- Built a small website for the startup using HTML/CSS and Bootstrap and Word-press

### Department of Computer Science, Government Islamia College Railway Road

Lahore, Pakistan

COMPUTER SCIENCE LECTURER

Nov 2018 - May 2020

- Taught following courses to undergraduate classes
- Operating Systems and Networks
- Programming and Intro to Databases

### Computer Vision & Machine Learning Lab, Al-Khawarizmi Institute of Computer Sciences

Lahore, Pakistan

DEEP LEARNING INTERN

Sep 2018 - Oct 2018

- Built a small image classification neural network using Keras using cars dataset from Google Images
- Learnt about Deep Learning and Computer Vision Basics.
- Developed interfaces of classification systems using HTML/CSS and bootstrap

## Publications

1. "Acral Melanoma Detection using Dermoscopic Images and Convolutional Neural Networks", Qaiser Abbas, Farheen Ramza, Muhammad Usman Ghani Khan [[Submitted to Elsevier Journal 'Tissue and Cell'](#)]
2. "A Computer Aided Diagnosis system for early detection of melanoma in dermoscopic images using deep Convolutional Neural Network", Qaiser Abbas, Farheen Ramzan, Aown Muhammad [[Under Process](#)]
3. "Detection and Classification of Emergency Vehicles based on deep learning", Qaiser Abbas, Aown Muhammad, Muhammad Ishtiaq [[Under Process](#)]

## Projects

### Melanoma Segmentation in dermoscopic images using Deep Learning

Lahore, Pakistan

PROJECT LEADER

January 2020

- Developed a melanoma skin lesion detection and segmentation system using Tensorflow and keras.
- Used Mask R-CNN model and utilized transfer learning with ResNet50 on ISIC 2019 dataset to segment the melanoma lesions.

### Firearms Detection and Classification using Deep Learning

Lahore, Pakistan

PROJECT LEADER

February 2020

- Developed a complete Firearms detection and classification system using Tensorflow and keras library.
- Yolo v3 model along with transfer learning (ResNet101) was used and it was trained on IMFDB dataset to detect and classify the firearms.

## Emergency Vehicles Classification using Convolutional Neural Network

Lahore, Pakistan

DEVELOPER

December 2019

- Developed an emergency vehicles classification system using a simple CNN architecture.
- Collected and annotated dataset and trained a Custom CNN model to detect and classify the vehicles.

## Technical Skills

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SOME OF MY CORE TECHNICAL SKILLS INCLUDE:

- Python, C, C++
- Keras / TensorFlow / OpenCV
- Machine Learning and Vision
- Research and Development
- Wordpress / HTML / CSS / Bootstrap
- Ubuntu, Kali Linux

## Honors & Awards

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2019	<b>Excellence Scholarship</b> , by DHA Lahore for 1st position in BS (120k PKR)	Lahore, Pakistan
2019	<b>Fauji Foundation Excellence Award</b> , by Fauji Foundation for 1st position in BS (30k PKR)	Mianwali, Pakistan
2018	<b>Gold Medalist</b> , BS in Information Technology	Sargodha, Pakistan
2015-18	<b>Fauji Foundation Educational Scholarship</b> , Got Scholarship throughout my undergraduate studies	Sargodha, Pakistan
2014-18	<b>Teaching Assistant</b> , Assisted teachers during BS in delivering lectures and marking quizzes	Mianwali, Pakistan
2014-18	<b>Class Representative</b> , Represented my class for four years during undergraduate studies	Mianwali, Pakistan

## Social Services

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2016-18	<b>Blood Donation Society</b> , Arranged a blood donation society in University of Sargodha	Mianwali, Pakistan
2018 -	<b>Promoting Education in Remote Areas</b> , Volunteer work to promote education in remote areas of Pakistan.	Lahore, Pakistan
2018 -	<b>Social Media Service</b> , Social Media service to promote higher education in Pakistan	Lahore, Pakistan
2016-18	<b>Career Guidance Seminars</b> , Arrangement of Career Counseling Seminars in University of Sargodha.	Mianwali, Pakistan
2016-18	<b>Freelancing Guidance Seminars</b> , Arrangement of Freelancing guidance Seminars in University of Sargodha.	Mianwali, Pakistan

## References

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- **Dr. Muhammad Usman Ghani Khan**  
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Department of Computer Science, University of Engineering and Technology Lahore, Pakistan  
Email - [usman.ghani@uet.edu.pk](mailto:usman.ghani@uet.edu.pk)
- **Dr. Sheikh Faisal Rasheed**  
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