

Qaiser Abbas

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Education

M.S Computer Science

Lahore, Pakistan

UNIVERSITY OF ENGINEERING AND TECHNOLOGY LAHORE

3.78/4.0 CGPA – 94.25% - TOP 10%

2018 - 2020

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

B.S Information Technology

Sargodha, Pakistan

UNIVERSITY OF SARGODHA

3.63/4.0 CGPA – 90% - GOLD MEDAL (CAMPUS)

2014 - 2018

FINAL YEAR PROJECT: IOT BASED LOW COST INTELLIGENT SURVEILLANCE SYSTEM FOR SMART HOME SECURITY

Experience

Department of Computer Science, University of Engineering and Technology

Lahore, Pakistan

TEACHING FELLOW

Mar 2021 - Present

- Teaching undergraduate courses (Theory+lab).
- Assisting the senior faculty in designing course contents and writing proposals for research grants.
- Research the latest Deep Learning and Computer Vision technologies to solve real-world problems.
- Mentoring final-year students in their Final Year Projects (FYPs).

Bioinformatics Research Lab, Al-Khawarizmi Institute of Computer Sciences

Lahore, Pakistan

MS STUDENT

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 Intern 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 WordPress

Department of Computer Science, Government Islamia College Railway Road

Lahore, Pakistan

COMPUTER SCIENCE LECTURER

Nov 2018 - May 2020

- Taught introductory undergraduate courses
- 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. **Qaiser Abbas**, Farheen Ramzan, and Muhammad Usman Ghani. "Acral melanoma detection using dermoscopic images and convolutional neural networks." Visual Computing for Industry, Biomedicine, and Art 4.1 (2021): 1-12.
2. "Detection and Classification of Malignant Melanoma using Deep Features of NASNet", **Qaiser Abbas**, Anza Gul [[Under Review at 'Springer Nature Computer Science'](#)]
3. "IoT Based Low-Cost Intelligent Surveillance System for Smart Home Security", **Qaiser Abbas**, Anza Gul [[Under Review at 'Journal of Ambient Intelligence and Smart Computing'](#)]
4. "Machine Learning based Smart Network Intrusion Detection System for SMEs in Developing Countries", **Qaiser Abbas**, Sadaf Hina, Hamza Sajjad [[Under Process'](#)]
5. "An efficient deep learning based system for automated pneumonia classification", **Qaiser Abbas**, Abqa Javed, Muhammad Irzam [[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.
- Yolo v3 model along with transfer learning was trained on IMFDB + custom 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.
- Trained a Custom CNN model to detect and classify the vehicles using own dataset.

Technical Skills

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

Professional Services

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| 2021 | Reviewer , Visual Computing for Industry, Biomedicine, and Art | Singapore |
| 2021 | Reviewer , Informatics in Medicine Unlocked | United Kingdom |

Social Services

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| 2016-18 | Blood Donation Society , Arranged a blood donation society in University of Sargodha | Mianwali, Pakistan |
| 2018 - | Promoting Education in Remote Areas , Volunteer work to promote education in remote areas of Pakistan. | Lahore, Pakistan |
| 2016-18 | Career Guidance Seminars , Arrangement of Career Counseling Seminars in University of Sargodha. | Mianwali, Pakistan |
| 2016-18 | Freelancing Guidance Seminars , Arrangement of Freelancing guidance Seminars in University of Sargodha. | Mianwali, Pakistan |

References

- **Prof. Dr. Muhammad Usman Ghani Khan**
Professor
Department of Computer Science, University of Engineering and Technology Lahore, Pakistan
Email - usman.ghani@uet.edu.pk
- **Prof. Dr. Muhammad Aslam**
Professor
Department of Computer Science, University of Engineering and Technology Lahore, Pakistan
Email - maslam@uet.edu.pk
- **Dr. Sadaf Hina**
Assistant Professor
Department of Computer Science, University of Engineering and Technology Lahore, Pakistan
Email - sadaf.hina@uet.edu.pk