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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% Oct 2018 - Nov 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)

Oct 2014 - Jul 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 Mar 2021 - Present

TEACHING FELLOW

• 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 Boostrap and WordPress

Department of Computer Science, Governament Islamia College Railway Road

Lahore, Pakistan

COPMUTER 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. Qaiser Abbas, Hamza Sajjad Sadaf Hina, Khurram Shabih Zaidi", "A Hybrid Light-Weight Approach for Cost-Effective Optimization of Network Intrusion Detection System using Ensemble Method". [Submitted to 'Journal of Network and Computer Applications']
- 3. Qaiser Abbas and Anza Gul, "Detection and Classification of Malignant Melanoma using Deep Features of NASNet", [Under Rewiew at 'Springer Nature Computer Science']
- 4. Qaiser Abbas and Abga Javed, "IoT Based Low-Cost Intelligent Surveillance System for Smart Home Security", [Under Rewiew at 'Applied
- 5. Qaiser Abbas, Abqa Javed, Nauman Babar, Usman Ghani, "An efficient deep learning based approach for automated pneumonia classification via chest X rays", [Under Process']

Projects

Melanoma Segmentation in dermoscopic images using Deep Learning

Lahore, Pakistan

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

DEVELOPER

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

December 2019

- Developed an emergency vehicles classification system using a simple CNN architectrue.
- 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
- Numpy, Pandas, Sklearn, Matplotlib
- VS Code, Sublime, PyCharm, Jupyter-Notebook, Google Colab
- Machine Learning and Vision
- Wordpress / HTML / CSS / Bootstrap
- Ubuntu, Kali Linux
- · Leadership, Event Management, Scientific Writing, Public Speaking

Honors & Awards

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

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

Social Services

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