

Waseem Abbas

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SUMMARY

- Over 3 years of experience in research and teaching in the field of Computer Science and Machine Learning.
- Strong knowledge of Python, PHP, C, C++, Data structure, Database, Bigdata, Machine Learning, Deep Learning and Computer Vision.
- Extensive experience in Software Architecture & Design, System Analysis and Design.
- Strong understanding of object-oriented analysis, architecture, and programming.
- In addition to hands-on web/software development, have fulfilled diverse responsibilities of business analysis & architecture, project coordination, documentation, and team leadership.
- Team management, Conflict Management, Time management & Report writing.
- Good interpersonal and communication skills, with fluency in written and oral English

EDUCATION

University of Science and Technology, (UET), Taxila, Pakistan

MS in COMPUTER SCIENCE

RESEARCH in DEEP LEARNING/MEDICAL IMAGE ANALYSIS

From: Oct 2018 to June 2021

Islamia University of Bahawalpur, (IUB), Pakistan

BS in COMPUTER SCIENCE

THEISIS in web-based HOSPITAL MANAGEMENT SYSTEM

From: Sep 2013 to Jan 2018

COURSEWORK

- Machine Learning/ Artificial Intelligence,
- Advance Neural Networks,
- Computer Vision,
- Computer Programming,
- Data Structures & Algorithms,
- Operating Systems
- Software Engineering
- Computer Networks Linear Algebra & Calculus.

SKILLS

Programming Languages

- C • C++ • Python • PHP • JavaScript
- MYSQL • MATLAB

Software/Tools/Libraries

- Tensorflow • Keras • Pycharm
- Anaconda • Visual Studio • Jupyter NB
- Spyder • OpenCV • Numpy
- Scikit Image • Scipy • Pillow
- PyQt • TKinter

Certificates

- Technical Course Track – Jul 2018
- Web Development – Dec 2015

Linguistics

- English (GT & Academic)
- Urdu (Native)

AWARDS

- 2021 Best Researcher of the year award from Dean faculty of Computer Science, University of Engineering and Technology, Taxila, Pakistan

PUBLICATIONS

- **Abbas, W.**, Adnan, S. M., Javid, M. A., Ahmad, W., & Ali, F. (2021). ANALYSIS OF TIBIA-FIBULA BONE FRACTURE USING DEEP LEARNING TECHNIQUE FROM X-RAY IMAGES. International Journal for Multiscale Computational Engineering, 19(1).
- **Abbas, W.**, Adnan, S. M., Javid, M. A., Majeed, F., Ahsan, T., & Hassan, S. S. (2020, November). Lower Leg Bone Fracture Detection and Classification Using Faster RCNN for X-Rays Images. In 2020 IEEE 23rd International Multitopic Conference (INMIC) (pp. 1-6). IEEE.

PROJECTS

- Vital Sign Detection using FMCW/PCR Radar
- Gesture Recognition using 70Ghz Radar
- Smart Mirror with live task Management
- Elderly age patient care/ Fall detection
- GUI application for Sentiment Analysis in Slovak language
- Product recognition on store shelves
- Medical image segmentation of Corona virus from x-rays images
- Medical image segmentation
- Bone fractures analysis
- Car Number Plate detection and recognition
- Building cracks detection and localization

EXPERIENCE

Sino-Pak Center for Artificial Intelligence (SPCAI) Haripur, PAK

RESEARCH ASSOCIATE- MACHINE LEARNING 23, Aug 2021- Present

- Research area concerns Radar, Signal Processing, Artificial Intelligence/Machine learning specifically Deep learning.
- Main interest of research is supervised/unsupervised techniques for gestures recognition directly from raw radar data for a specific hand gesture. Real time data acquisition, preprocessing, classification, recognition/identification, object shape and spatial analysis.
- Actively contribute to research regarding similar concerns of supervised/ unsupervised learning, computer vision and deep learning tasks.
- Prepared documentation, presentations, and highlighted findings to support projects.

National Center of Artificial Intelligence (NCAI) Islamabad, Pakistan

RESEARCH ASSISTANT 17, May 2021- 23, Aug 2021 (0.4 year)

- Apply Computer Vision Techniques with genomics information (Radio genomics) to identify, classify and segmentation of cancer from non-small cell lung cancer using MRI images.
- Apply machine learning techniques and employ neural networks for classification of malignant breast cancer and other abnormalities.
- Actively participate and contribute to research regarding similar concerns of medical image analysis and Identification/classification of malignant abnormalities.

University of Engineering and Technology (UET) Taxila Pakistan

RESEARCH ASSISTANT 03, Aug 2020- 29, Mar 2021 (0.7 year)

- Apply Image Processing Techniques with Machine Learning algorithm for detection and classification Tibia-fabula Bone Fractures of X-Rays Images

- Worked on diverse projects related to medical imaging and signal processing
- Actively contributed to collective research projects under collaborated Labs.

University of Engineering and Technology (UET) Taxila, Pakistan

TEACHING ASSISTANT- COMPUTER SCIENCE 8, Oct 2018 – 24, Jul 2020 (1.10 years)

- Deliver Lectures related to machine learning, analysis of algorithm, operating systems.
- Conduct the lab of machine learning and operating system.
- Actively participate in various committees for administrative and academic activities.
- Contribute to AI Research Group along with other colleagues to supervise machine learning related projects in research and development.
- Supervisory for research projects of final year students in product designing, development, and reform strategy – with research interests of imaging, audio, and radar signals.
- Held Lab Programming Sessions/ Workshops for machine learning and deep learning via python for 50+ students per semester.

PERSONAL INFORMATION

• Address:

House No. B26 Rawal Dam Colony, Park Road
Islamabad, Pakistan (44000)

• **Date of Birth:** 05-04-1996

• **Nationality:** Pakistani

• **CNIC:** 31102-6686492-1

REFERENCES

• **Syed Muhammad Adnan Shah**

Assistant professor, University of Engineering and Technology, Taxila, Pakistan

Email: syed.adnan@uettaxila.edu.pk

• **Muhammad Arshad Javid**

Assistant professor, University of Engineering and Technology, Taxila, Pakistan

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• **Muhammad Wakeel Ahmed**

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