Sadam Hussain

CONTACT

📍 305-1381 pandora ave
V8R 1A4 Victoria, Canada
(Home)

✉️ sadamteewino@gmail.com

📞 (+1) 2504156270

EDUCATION AND TRAINING

01/09/2023 – CURRENT Victoria, Canada

Visiting Scholar University of Victoria

01/08/2021 – CURRENT Mexico

PhD in Computer Science Tecnologico de Monterrey

Thesis Deep Learning and Natural Language Processing for Computer Aided Diagnosis

02/2018 – 02/2020 Pakistan

MPhil in Computer Science Shah Abdul Latif University, Khairpur

Thesis title: *"Analysis of fMRI Based Functional Connectivity at Macroscale Level"*
CGPA 4/4

01/2012 – 02/2014 Jamshoro, Pakistan

Masters of Science in Computer Science University of Sindh

Silver Medalist
CGPA 3.87/4 First Position
Project title: *Database Management System of a Bookshop*

31/12/2008 – 30/12/2010 Khairpur, Pakistan

Bachelor of Science Shah Abdul Latif University

WORK EXPERIENCE

12/2017 – CURRENT Shikarpur, Pakistan

Lecturer(Computer Science) Shaikh Ayaz University, Shikarpur.

-Teaching Various Computer Science Subjects along with practical, such as:
-Artificial Intelligence
-Discrete Structures
-Automata Theory
-Data Structures & Algorithms

03/2016 – 12/2017 Naushahro Feroze, Pakistan

Monitoring Assistant School Education and Literacy Department, Government of Sindh

-Installation & maintenance of hardware & software associated with bio-metric system.
-Maintenance of computerized bio-metric record.
-Synchronization of bio-metric record to the data center.

02/2015 – 01/2016 Naushahro Feroze, Pakistan

Lab Demonstrator (Computer Science) Sukkur IBA university

Teaching and Practicals of various computer science subjects such as:
-Discrete Structures, Automata Theory & Data Structures & Algorithms.

04/2014 – 05/2014 Jamshoro, Pakistan

Intern-Network Administration Hidaya Institute of Science & Technology

The Network Administration included:
Functions of Networking Devices, LAN Operation, VLANs, VTP, STP & RSTP. Switch Port Security, WAN Technologies, Static & Dynamic Routing(RIP, EIGRP & OSPF), NAT/PAT, ACLs.

WLANs(BSS, ESS with Wireless Security) & IPv6

Mexico City, Mexico

Mexican NLP Summer School 2024 NAACL

PUBLICATIONS

Publications

1. Naseem, U, Sadam H. et al. "Knowledge Enhanced Language Model for Biomedical Natural Language Processing: Introducing a New Language Model for BioNLP." *IEEE Systems, Man, and Cybernetics Magazine* 11.1 (2025): 89-94.
2. Hussain, Sadam, et al. "Multiview Multimodal Feature Fusion for Breast Cancer Classification Using Deep Learning." *IEEE Access* (2024)..
3. Hussain, Sadam, et al. "Comparative Analysis of Deep Learning Models for Breast Cancer Classification on Multimodal Data." *Proceedings of the First International Workshop on Vision-Language Models for Biomedical Applications*. 2024.
4. Hussain, Sadam, et al. "TECRR: a benchmark dataset of radiological reports for BI-RADS classification with machine learning, deep learning, and large language model baselines." *BMC Medical Informatics and Decision Making* 24.1 (2024): 310.
5. Hussain, Sadam, et al. "Performance Evaluation of Deep Learning and Transformer Models Using Multimodal Data for Breast Cancer Classification." *MICCAI Workshop on Cancer Prevention through Early Detection*. Cham: Springer Nature Switzerland, 2024.
6. Hussain, Sadam, et al. "Breast cancer risk prediction using machine learning: a systematic review." *Frontiers in Oncology* 14 (2024): 1343627.
7. Hussain, Sadam, et al. "Deep learning, radiomics and radiogenomics applications in the digital breast tomosynthesis: a systematic review." *BMC bioinformatics* 24.1 (2023): 401.
8. Jatoi, Munsif. Ali., Fayaz. Ali. Dharejo, and **Sadam Hussain**. "Comparison of Machine Learning Techniques Based Brain Source Localization Using EEG Signals." *Current medical imaging* (2020).
9. M. A. Jatoi, N. Kamel and **S. Hussain**, "Trend Analysis for Brain Source Localization Techniques Using EEG Signals," *2020 3rd International Conference on Computing, Mathematics and Engineering Technologies (iCoMET)*, Sukkur, Pakistan, 2020, pp.
10. Hussain, Sadam, et al. "Reducing Unnecessary Breast Biopsies Using a Vision-Language Model on Multimodal Data" *Journal of Biomedical Informatics. (**Under Review**)*
11. F Ali, A. Ahmed, **S. Hussain**, GI. V, H. Terashima, "Assessing Complex Skills in a Virtual Reality Context: Capturing the Development of Pre-Service Teachers' Classroom Management Strategies", *Education Sciences, (**Under Review**)*
12. Aafia A., Sadam H. et al. "Large Language Models in Healthcare: A Scoping Review", *ACM Computing Surveys (**Under Review**)*
13. Sadam Hussain et al. "Multimodal AI for Breast Cancer Risk Prediction", *npj Digital Medicine (**Under Review**)*

HONOURS AND AWARDS

Honours and awards

Vice Chancellors Silver Medal for standing first in M.Sc Computer Science in the year 2013/14 at university of Sindh, Jamshoro

ONLINE COURSES

Online Courses

AI for Medicine Specialisation (Online Course)
by Coursera
Fundamental Neuroscience for Neuroimaging (Online Course)
By Johns Hopkins University

Principles of fMRI 1 (Online course)
by Johns Hopkins University & University of Colorado Boulder

Principles of fMRI 2 (Online course)
by Johns Hopkins University & University of Colorado Boulder

PROGRAMMING SKILLS

Programming Skills

-Python, Java, MATLAB

Tools: Pytorch, Keras, KNIME