

Dr. Muhammad Imran
Sr. IT Manager
Department of Metallurgical Engineering
NED University of Engineering & Technology, Karachi, Pakistan
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Objective

To pursue high quality research in the domain of Natural Language Processing with machine learning and deep learning and impart the knowledge and experience for academic and research excellence.

Education

Ph. D. in Computer Science October 2022

from NED University of Engineering & Technology, Karachi, Pakistan

Thesis Title: *“A concept-centric approach for Aspect-Based Sentiment Analysis using Deep Learning and Knowledgebase”.*

Masters in Computer Science & IT in December 2013 (3.36 CGPA)

from NED University of Engineering & Technology, Karachi, Pakistan

Masters in Computer Science in February 2007 (3rd Position, 3.28 CGPA)

from Federal Urdu University of Arts, Science & Technology, Karachi.

B.Sc. in 1994 (2nd Division)

from Govt. Islamia Science College, Karachi, Pakistan

Diploma & Certificates

DCS – Two Years Diploma in Computer Science

from AT&T (NCR) Education Centre, Shahrah-e-Faisal, Karachi,

(Examination passed with S.B.T.E.) (1999)

PGC (Postgraduate Certificate) in Oracle 9i / Developer 6.

from NED University of Engg. & Tech., Karachi.

(Aug 2002 to Feb 2003)

PGD (Postgraduate Diploma) in Computer & Information System with 2nd Division.

from Department of Computer Science, University of Karachi, Karachi.

(Jan 2003 to Dec 2003)

PGC (Postgraduate Certificate) in Database Development with .Net (VB/ASP)

from Center for Continuing Engineering Education, NED UET, Karachi.

(Dec 2005 to March 2006)

English Language

International English Language Testing System (IELTS) with 6.5 Bands

from Australian Education Office (AEO), Clifton, Karachi.

Professional Experience

IT Manager (Sr. Scale) Jan 2021 – to date

Department of Metallurgical Engineering, NED University of Engineering & Technology.

IT Manager (Jr. Scale) Oct 2011 – Dec 2020

Department of Metallurgical Engineering, NED University of Engineering & Technology.

IT Manager (Jr. Scale) Nov 2007 – Sep 2011

Department of Telecommunications Engineering, NED University of Engineering & Technology.

Computer Teacher (Secondary Classes)

Taught Computer Course at Khan Public School, Sector 15-A/3, Buffer Zone, Karachi.

Research Publications

1. **Muhammad Imran**, Saman Hina, and Mirza Mahmood Baig, “*Analysis of Learner’s Sentiments to Evaluate Sustainability of Online Education System during COVID-19 Pandemic*”, in the Research Journal, Sustainability in 2022, 14, 4529.
2. Hira Farman, Saad Ahmed, **M. Imran**, Zain Noureen and Munad Ahmed, “*Deep Learning Based Bird Species Identification and Classification Using Images*”, in Journal of Computing & Biomedical Informatics, Volume 06 Issue 01 2023.
3. Saad Ahmed, Sidrah Khurshid, **Muhammad Imran**, Muhammad Shoaib Siddiqui, Saman Hina and Munad Ahmed, “*Analysis of Mental Health Counselling Conversation Using Natural Language Processing*” in Journal of Computer Science 2024, 20(3): 303-309.
4. Laviza Falak Naz, Rohail Qamar, Raheela Asif, Saad Ahmed and **Muhammad Imran**, “*BlockEstate: Revolutionizing Real Estate Transactions through Hyperledger-based Blockchain Technology*”, in Engineering, Technology & Applied Science Research, Vol. 14, No. 3, 2024, 14458-14464.
5. Hira Farman, Abdul Wahab Khan, Saad Ahmed, Dodo Khan, **Muhammad Imran**, and Priyanka, “*An Analysis of Supervised Machine Learning Techniques for Churn Forecasting and Component Identification in the Telecom Sector*”, in Journal of Computing & Biomedical Informatics, Volume 07 Issue 01 2024.
6. Saad Ahmed, **Muhammad Imran**, Rohail Qamar, Afzal Hussain, Raza Hussain Akbari and Auj Rehman, “*A Novel Approach to Improve Question Answering System*” in VAWKUM Transactions on Computer Sciences, Volume 12, Issue1, 2024, pp:149-162.
7. Amna Ahmed, Rohail Qamar, Raheela Asif, **Muhammad Imran**, Muhammad Khurram, Saad Ahmed, “*The Dead Internet Theory: Investigating the Rise of AI-Generated Content and Bot Dominance in Cyberspace*”, Pakistan Journal of Engineering Technology and Science (PJETS) Volume 12. Issue.01, PP. 37-48, June 2024.
8. Laviza Falak Naz, Rohail Qamar, Raheela Asif, **Muhammad Imran** and Saad Ahmed, “*Robot Vision over CosGANs to Enhance Performance with Source-Free Domain Adaptation Using Advanced Loss Function*”, Intelligent Automation & Soft Computing, Published Online: 25 September 2024

Research Fundings

MoST research grant, “A concept-centric approach for Aspect Based Sentiment Analysis (ABSA) using Deep Learning and Knowledgebase”, (PKR 1.5M), 2019-21.

Part Time

Part Time Faculty NED University of Engineering & Technology
Teaching MS(CT/IS/DS) programmes.

Visiting Faculty Iqra University, Gulshan-e-Iqbal Campus G1 and G2
Teaching Undergraduate programmes.

Courses Taught

- Computer Programming & Drafting (CPD) C++
- Introduction to Information & Communication Technology (IICT)
- Fundamentals of Information Technology (FIT)
- Object Oriented Programming (OOP) C++/Python
- Database Management System (DBMS)

Projects

- Independent Study Project on Educational Data Mining using Pre-Admissions Entry Test Dataset of NEDUET completed during MS(CSIT).
- Co-Supervisor; Final year students of Computer Science & Information Technology working on Admissions' Chabot using LLM.
- Supervisor; predicting properties of steel alloy using machine learning (FYDP in progress).

Training

- IT Management – Capacity building training of HEIs' staff, held at IBA, Karachi from August 3-6, 2015.
- Content Management System/New Website for Department Feb 27th to Mar 9th, 2018.
- Interpersonal Skills at NEDUET from Aug 27-28, 2018.
- Database Development and Networking Administration at NEDUET from March 28-29, 2022.

Other Responsibilities

- Member Admission Committee, NEDUET Undergraduate Admissions (Managed admissions data, preparation call lists, interviews and admissions process) since 2001.
- Lab. In charge at Computer lab of Metallurgical Engineering Dept.

Personal Details

Marital Status : Married

Languages : Urdu and English