

**Dr. Muhammad Imran**  
Assistant Professor  
Department of Computer Science & Information Technology  
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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”.*

### **MS Computer Science & IT in 2013**

from NED University of Engineering & Technology, Karachi, Pakistan

### **Masters in Computer Science (MCS) in 2007**

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

**B.Sc. in 1993** from University of Karachi, Pakistan

## Diploma & Certificates

- **AI Security & Governance (Online certificate – Nov 2024)**
- **DCS – Two Years Diploma in Computer Science from AT&T (NCR) Education Centre, Shahr-e-Faisal, Karachi,**
- **PGD (Postgraduate Diploma) in Computer & Information System** from Department of Computer Science, University of Karachi, Karachi.

## Experience

### **Assistant Professor; Oct 23, 2025 – to date**

Department of Computer Science & Information Technology, NED UET

### **IT Manager (Sr. Scale); Jan 2019 – Oct 22, 2025**

Department of Metallurgical Engineering, NED UET.

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

Department of Metallurgical Engineering, NED UET.

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

Department of Telecommunications Engineering, NED UET.

## 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, 2024, vol.39, no.5.
9. Laviza Falak Naz, \*Rohail Qamar, Raheela Asif, Saman Hina, **Muhammad Imran**, Saad Ahmed, “*Intelligent energy management in IoT-enabled smart homes: Anomaly detection and consumption prediction for energy-efficient usage*”, Mehran University Research Journal of Engineering and Technology, 2025, 44(1) 113-123.
10. **M. Imran**, Saad Ahmed, Raheela Asif, Saman Hina and Hira Farman, “A Comparative Study of Data Mining Techniques for Predicting Candidates’ Performance Based on High School Records”, Journal of Computing & Biomedical Informatics, Volume 09 Issue 02 2025.
11. Abdul Karim Kazi, **Muhammad Imran**, Raheela Asif and Saman Hina, SYMPHONY: Synergistic Hierarchical Metric-Fusion and Predictive Hybrid Optimization for Network Yield—A VANET Routing Protocol, *Sensors*, Volume 26 No.1, December 2026.

### Research Funding:

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

### Teaching

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

**Visiting Faculty** Iqra University, Gulshan-e-Iqbal Campus  
Teaching **Undergraduate** programmes.

### Courses Taught

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

## **Projects**

- Independent Study Project, “Educational Data Mining using Pre-Admissions Entry Test Dataset of NEDUET”, completed during MS(CSIT).
- Working as Research Collaborator in Sindh Research Support Program 2024-25, “Machine Learning-Assisted Design and Development of High Entropy Alloys via Powder Metallurgy”. (in progress)

## **Supervision/Co-Supervision**

Supervising Undergraduate and Postgraduate students through research and development phases, providing technical guidance and feedback:

## **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 27<sup>th</sup> to Mar 9<sup>th</sup>, 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 since 2001.
- Lab. In charge at Computer lab of Metallurgical Engineering Dept.(till Oct 22, 2025)
- Class Advisor, Third Year (CS/AI/DT/CR/GA)

## **Personal Details**

Marital Status : Married

Languages : Urdu and English