

## DR. MUHAMMAD KAMRAN MALIK

**SUMMARY** 16+ years' experience in research and academia  
10+ projects in production – mostly first of a kind AI projects  
90+ accumulative impact factor of Journal Papers  
Experienced in developing, leading, and mentoring Data Science teams  
1 US Patent and more than 50 International Journal and Conference publications  
Python (since 2008), Scikit-learn Spark, TensorFlow, Pandas

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**EDUCATION** **PHD NATURAL LANGUAGE PROCESSING**  
Punjab University College of Information Technology, University of the  
Punjab, Lahore Pakistan

**MSC SOFTWARE PROJECT MANAGEMENT (SLIVER MEDAL)**  
National University of Computer and Emerging Science (NUCES-FAST),  
Lahore Pakistan

**MSC COMPUTER SCIENCE**  
Punjab University College of Information Technology, University of the  
Punjab, Lahore Pakistan

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**EXPERIENCE** **PROFESSOR, DEPARTMENT OF DATA SCIENCE**  
**UNIVERSITY OF THE PUNJAB, LAHORE, PAKISTAN**  
May 2023 – to date  
As member of Faculty of Computer Science at one of the largest universities of Pakistan, I  
taught various courses including Introduction to AI, Machine Learning, Deep Learning, Data  
Science and Project Management.

**ASSOCIATE PROFESSOR**  
**PUNJAB UNIVERSITY COLLEGE OF INFORMATION TECHNOLOGY, UNIVERSITY OF THE PUNJAB,**  
**LAHORE, PAKISTAN**  
Sep 2020 – May 2023  
As member of Faculty of Computer Science at one of the largest universities of Pakistan, I  
taught various courses including Introduction to AI, Machine Learning, Deep Learning, Data  
Science and Project Management.

**ASSOCIATE PROFESSOR**  
**DEPARTMENT OF INFORMATION TECHNOLOGY, UNIVERSITY OF THE PUNJAB, GUJRANWALA**  
**CAMPUS, PAKISTAN**  
August 2020 – September 2020  
As member of Faculty of Computer Science at one of the largest Universities of Pakistan,  
I taught various courses including Introduction to AI, Machine Learning.

#### **ASSISTANT PROFESSOR**

**PUNJAB UNIVERSITY COLLEGE OF INFORMATION TECHNOLOGY, UNIVERSITY OF THE PUNJAB, LAHORE, PAKISTAN**

October 2010 – August 2020

As member of Faculty of Computer Science at one of the largest universities of Pakistan, I taught various courses including Introduction to AI, Machine Learning, Deep Learning, Data Science and Project Management.

#### **ASSISTANT PROFESSOR**

**INSTITUTE OF BUSINESS AND INFORMATION TECHNOLOGY, UNIVERSITY OF THE PUNJAB, LAHORE, PAKISTAN**

Jan 2010 – Sep 2010

As member of Faculty of Computer Science at one of the largest universities of Pakistan, I taught various courses including Introduction to DBMS, Software Engineering, Project Management.

#### **ASSISTANT MANAGER**

**NATIONAL TRANSMISSION AND DESPATCH COMPANY (NTDC), WAPDA**

Jan 2006 – Jan 2010

NTDC has properties, rights and assets obligations and liabilities of 220 KV and 500KV Grid Stations and Transmission Lines/Network owned by Pakistan Water and Power Development Authority (WAPDA). My key contributions:

- Development of power scheduling management system to optimize the generation of electricity as per current needs. After Development, our system was able to optimize generation over 15%.

#### **VISITING LECTURER**

**PUNJAB UNIVERSITY COLLEGE OF INFORMATION TECHNOLOGY, UNIVERSITY OF THE PUNJAB, LAHORE, PAKISTAN**

April 2004 – June 2009

As member of Faculty of Computer Science at one of the largest universities of Pakistan, I taught various courses including Introduction to Compiler Construction, Software Engineering, and Software Project Management.

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#### **SELECTED PROJECTS**

**DataLookSee:** An integrated analysis environment that combines structured and unstructured (textual) data to bring customer experience to the surface. It helps users find previously unknown insights in their text based data (such as social media engagement, call center data, chat, return feedback, survey responses and more) to reveal customer sentiment, consumer trends, hidden product concerns, or service issues. (<https://polyvista.com/>)

**Natural Language Based Question Answering System:** A system designed to respond a question in form of a Mindmap which provides a detailed insight after performing deep analysis of question asked in form of natural language statement. (<https://polyvista.com/>)

**Competitive Pulse:** A reporting framework designed to perform analytics on unstructured data to generate an interactive, state of the art interactive report that can be used for various purposes whether it be product improvement, future directions or management level decisions (<https://polyvista.com/>)

**Self Service Text Analytics:** Text analytics doesn't have to be difficult. This service introduces a faster and easier way to analyze your free-form text data. (<http://ssa.polyvista.net/>)

**Ethizo:** It help doctors to complete patient enrolment in less than two minute. It helps in crating comprehensive Chronic Care Management (CCM) plan in less than ten minutes and 80% of CCM activities captured automatically on this platform. (<https://www.ethizo.com/>)

**Algo Insight Studio:** It groups stores based on performance and other user-defined criteria to identify top performers and actionable insights used to optimize SKU/Store combinations across all retailers. It quickly identify exceptions that fall outside of normal KPI parameters. With optimized Weeks of Supply at the SKU/Store level, this solution helps customer in identify stocking issues before they happen, minimize Out-Of-Stocks, and brings the highest impact, actionable insights to the forefront. (<https://www.algo.com/insights-studio/>)

**Algo Simulation Studio:** Algo provides the canvas for business users to create forecast models based on the nuances unique to every organization. Layer multiple forecast methodologies, add a promotion, seasonality lift, unforeseen disruptions, weather data; accurate forecasting is equal parts science and art. Algo optimizes hundreds-of-millions of SKU/Store combinations every day. Algo helps customer predict sales opportunities by anticipating out-of-stocks and open-to-buy constraints allowing for flexibility in altering inventory strategies that support topline revenue and profitable product mix. (<https://www.algo.com/simulations-studio/>)

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COURSES  
TEACHING

Online Course - Machine Learning for Artificial Intelligence at Experfy – A Harvard Initiative

Online Course – Data Science for Finance Professionals - MECA CFO Academy

Online Course – Python for Data Science

(<https://www.youtube.com/watch?v=JZ1VNP2ZGUI&list=PLfng5rv4gTmoWKRahABOGb-M6EIKkOrX4>)

Online Course – Artificial Intelligence

(<https://www.youtube.com/watch?v=nR4gF1z2rPs&list=PLfng5rv4gTmqQBWLNIzI2q0eGsexAU0bN>)

Online Course – Natural Language Processing

(<https://www.youtube.com/watch?v=ubhC1zB74os&list=PLfng5rv4gTmqfLtZcK85wDXDTQgZn0132>)

Online Course – Machine Learning

(<https://www.youtube.com/watch?v=A03cxusLgoA&list=PLfng5rv4gTmqAP1UifEBuFFADrkoASjp2>)

Online Course – Natural Language Processing Using Deep Learning

([https://www.youtube.com/watch?v=gU1N7eU3GfM&list=PLfng5rv4gTmpm9EYXP3iaafpQv\\_A8afsz](https://www.youtube.com/watch?v=gU1N7eU3GfM&list=PLfng5rv4gTmpm9EYXP3iaafpQv_A8afsz))

Online Course – Pandas Library for Data Scientist

([https://www.youtube.com/watch?v=uKJzVQw4zyg&list=PLfng5rv4gTmp74\\_fZ\\_RqbdeR2q2xUE7UX](https://www.youtube.com/watch?v=uKJzVQw4zyg&list=PLfng5rv4gTmp74_fZ_RqbdeR2q2xUE7UX))

Online Course – Machine Learning Using Sklearn Library

([https://www.youtube.com/watch?v=wmb\\_1S0-TfEs&list=PLfng5rv4gTmpXie3zcZ0luQ10NXP3CBic&index=2](https://www.youtube.com/watch?v=wmb_1S0-TfEs&list=PLfng5rv4gTmpXie3zcZ0luQ10NXP3CBic&index=2))

- US PATENT Anwar, Shahbaz, Muhammad Kamran Malik, Muhammad Javed, Faheem Abbas, and Imran Saeed. "**System and process for natural language processing and reporting.**" U.S. Patent 9,619,555, issued April 11, 2017.
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- JOURNAL PAPERS Kanwal, Safia, Muhammad Kamran Malik, Zubair Nawaz, and Khawar Mehmood. "**SEEUNRS: Semantically-Enriched-Entity-Based Urdu News Recommendation System.**" ACM Transactions on Asian and Low-Resource Language Information Processing (2024).
- Nasir, Tayyab, and Muhammad Kamran Malik. "**Efficient CRNN: Towards end-to-end low resource Urdu text recognition using depthwise separable convolutions and gated recurrent units.**" Information Processing & Management 61.1 (2024): 103544.
- Ilyas, Abdullah, Khurram Shahzad, and Muhammad Kamran Malik. "**Emotion detection in code-mixed roman urdu-english text.**" ACM Transactions on Asian and Low-Resource Language Information Processing 22.2 (2023): 1-28.
- Nasir, Tayyab, and Muhammad Kamran Malik. "**SACDNet: Towards Early Type 2 Diabetes Prediction with Uncertainty for Electronic Health Records.**" arXiv preprint arXiv:2301.04844 (2023).
- Kanwal, Safia, Muhammad Kamran Malik, Zubair Nawaz, and Khawar Mehmood. "**Urdu Wikification and Its Application in Urdu News Recommendation System.**" IEEE Access 10 (2022): 103655-103668.
- Mustansir, Amina, Khurram Shahzad, and Muhammad Kamran Malik. "**Towards automatic business process redesign: an NLP based approach to extract redesign suggestions.**" Automated Software Engineering 29.1 (2022): 1-24.
- Nazir, Zulqarnain, Khurram Shahzad, Muhammad Kamran Malik, Waheed Anwar, Imran Sarwar Bajwa, and Khawar Mehmood. "**Authorship Attribution for a Resource Poor Language—Urdu.**" Transactions on Asian and Low-Resource Language Information Processing 21, no. 3 (2021): 1-23.
- Nasir, Tayyab, Muhammad Kamran Malik, and Khurram Shahzad. "**MMU-OCR-21: Towards End-to-End Urdu Text Recognition Using Deep Learning.**" IEEE Access 9 (2021): 124945-124962.
- Khan, Ali Haider, Muzammil Hussain, and Muhammad Kamran Malik. "**Arrhythmia classification techniques using deep neural network.**" Complexity 2021 (2021).
- Khan, Ali Haider, Muzammil Hussain, and Muhammad Kamran Malik. "**Cardiac disorder classification by electrocardiogram sensing using deep neural network.**" Complexity 2021 (2021).
- Khan, Ali Haider, Muzammil Hussain, and Muhammad Kamran Malik. "**ECG images dataset of cardiac and COVID-19 patients.**" Data in Brief 34 (2021): 106762.
- Moin Khan, Khurram Shahzad, Muhammad Kamran Malik. "**Hate-Speech Detection in Roman Urdu.**" ACM Transactions on Asian and Low-Resource Language Information Processing (TALLIP) 20, no.1 (2021): 1-19
- Kanwal, Safia, Sidra Nawaz, Muhammad Kamran Malik, and Zubair Nawaz. "**A Review of Text-Based Recommendation Systems.**" IEEE Access 9 (2021): 31638-31661.
- Nasar, Zara, Syed Waqar Jaffry, and Muhammad Kamran Malik. "**Named Entity Recognition and Relation Extraction: State of the Art**", ACM Computing Surveys (CSUR) 54, no.1 (2021) 1-39.

Malik, Mishaim, Muhammad Kamran Malik, Khawar Mehmood, and Imran Makhdoom. "**Automatic speech recognition: a survey.**" *Multimedia Tools and Applications* (2020): 1-47.

Mehmood, Khawar, Daryl Essam, Kamran Shafi, and Muhammad Kamran Malik. "**An unsupervised lexical normalization for Roman Hindi and Urdu sentiment analysis.**" *Information Processing & Management* 57, no. 6 (2020): 102368.

Ali, Muhammad, Khurram Shahzad, Syed Irtaza Muzaffar, and Muhammad Kamran Malik. "**Deep Analysis of Process Model Matching Techniques.**" *IEEE Access* (2020).

Tayyab Ahmad, Muhammad Kamran Malik, Khurram Shahzad, Faisal Aslam, Asif Iqbal, Zubair Nawaz, Faisal Bukhari. "**Named Entity Recognition and Classification for Punjabi Shahmukhi.**" *ACM Transactions on Asian and Low-Resource Language Information Processing (TALLIP)* (2020).

Aftab Ahmed Khan, Akhtar Jamil, Dostdar Hussain, Murtaza Taj, Gul Jabeen, and Muhammad Kamran Malik. "**Machine-Learning Algorithms for Mapping Debris-Covered Glaciers: The Hunza Basin Case Study.**" *IEEE Access* 8 (2020): 12725-12734.

Syed Irtaza Muzaffar, Khurram Shahzad, Kamran Malik, and Khawar Mahmood. "**Intention mining: A deep learning-based approach for smart devices.**" *Journal of Ambient Intelligence and Smart Environments Preprint* (2020): 1-13.

Syed Irtaza Muzaffar, Khurram Shahzad, Faisal Aslam, Madiha Khalid, and Kamran Malik. "**Process Matching: Performance Trade-Off Between Summary and Full-Length Descriptions**" *Computing & Informatics* 38, no. 4 (2019)

Khawar Mehmood, Daryl Essam, Kamran Shafi, Muhammad Kamran Malik. 2019. "**Sentiment Analysis for a Resource Poor Language – Roman Urdu.**" *ACM Transactions on Asian and Low-Resource Language Information Processing (TALLIP)* 19, no. 1 (August 2019): 10.

Nasar, Zara, Syed Waqar Jaffry, and Muhammad Kamran Malik. "**Textual keyword extraction and summarization: State-of-the-art.**" *Information Processing & Management* 56, no. 6 (2019): 102088

Rafique, Ayesha, Muhammad Kamran Malik, Zubair Nawaz, Faisal Bukhari, and Akhtar Hussain Jalbani. "**Sentiment analysis for Roman Urdu.**" *Mehran University Research Journal of Engineering & Technology* 38, no. 2 (2019): 463.

Shahzad, Khurram, Safia Kanwal, Kamran Malik, Faisal Aslam, and Muhammad Ali. "**A word-embedding-based approach for accurate identification of corresponding activities.**" *Computers & Electrical Engineering* 78 (2019): 218-229

Safia Kanwal, Kamran Malik, Khurram Shahzad, Faisal Aslam, and Zubair Nawaz. 2019. "**Urdu Named Entity Recognition: Corpus Generation and Deep Learning Applications.**" *ACM Trans. Asian Low-Resour. Lang. Inf. Process.* 19, 1, Article 8 (June 2019),

Iftikhar, Afnan, Syed Waqar Ul Qounain Jaffry, and Muhammad Kamran Malik. "**Information Mining From Criminal Judgments of Lahore High Court.**" *IEEE Access* 7 (2019): 59539-59547.

Mehmood, Khawar, Daryl Essam, Kamran Shafi, and Muhammad Kamran Malik. "**Discriminative Feature Spamming Technique for Roman Urdu Sentiment Analysis.**" *IEEE Access* 7 (2019): 47991-48002.

Tariq, Nida, Iqra Ejaz, Muhammad Kamran Malik, Zubair Nawaz, and Faisal Bukhari. "**Identification of urdu ghazal poets using SVM.**" *Mehran University Research Journal of Engineering & Technology* 38, no. 4 (2019): 935-944.

Zara Nasar, Syed Waqar Jaffry, and Muhammad Kamran Malik, " **Information extraction from scientific articles: a survey**" *Scientometrics* (2018)

Muhammad Kamran Malik. " **Urdu Named Entity Recognition and Classification System Using Artificial Neural Network**." *ACM Transactions on Asian and Low-Resource Language Information Processing (TALLIP)* 17.1 (2017).

Muhammad Kamran Malik, and Syed Mansoor Sarwar. " **Urdu Named Entity Recognition System using Hidden Markov Model**." *Pakistan Journal of Engineering and Applied Sciences* (2017).

Abdul Mateen, Muhammad Kamran Malik, Zubair Nawaz, H. M. Danish, M. Hassan Siddiqui, and Qaiser Abbas. " **A Hybrid Stemmer of Punjabi Shahmukhi Script**." *IJCSNS* 17, no. 8 (2017): 90.

Muhammad Usman, Zunaira Shafique, Saba Ayub, and Muhammad Kamran Malik. " **Urdu Text Classification using Majority Voting**." *International Journal of Advanced Computer Science and Applications (IJACSA)*, Vol. 7, No. 8, 2016.

Muhammad Kamran Malik, Syed Mansoor Sarwar. " **Named Entity Recognition System for postpositional languages: Urdu as a case study**". *International Journal of Advanced Computer Science and Applications (IJACSA)* 2016.

Asif, Tahira, Aasim Ali, and Muhammad Kamran Malik. " **Developing a POS tagged resource of Urdu**" *Science International*, 27(5)(2015): 4479-4483.

Muhammad Kamran Malik, and Syed Mansoor Sarwar. " **Urdu Named Entity Recognition and Classification System Using Conditional Random Field**". *Science International*, 27(5)(2015): 4473-4478.

Muhammad Kamran Malik, Aasim Ali, and Khawar Mahmood. " **Building Named Entity Recognition and Classification System for Resource Poor Languages Using Parallel corpus: English-Urdu as Case Study**" *Science International*, 27(5)(2015): 4531-4534.

Ali, Aasim, Arshad Hussain, and Muhammad Kamran Malik. " **Model for English-Urdu statistical machine translation**." *World Applied Sciences* 24 (2013): 1362-1367.

Shahzadi, Sana, Beenish Fatima, Muhammad Kamran Malik, and Syed Mansoor Sarwar. " **Urdu Word Prediction System for Mobile Phones**." *World Applied Sciences Journal* 22, no. 1 (2013): 113-120. (ISI Indexed journal at the time of publication)

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CONFERENCE  
PAPERS

Aftab, Esha, and Muhammad Kamran Malik. " **eRock at Qur'an QA 2022: Contemporary Deep Neural Networks for Qur'an based Reading Comprehension Question Answers**." In *Proceedings of the 5th Workshop on Open-Source Arabic Corpora and Processing Tools with Shared Tasks on Qur'an QA and Fine-Grained Hate Speech Detection*, pp. 96-103. 2022.

Mustansir, Amina, Khurram Shahzad, and Muhammad Kamran Malik. " **Sentiment Analysis of User Feedback on Business Processes**." 2021 36th IEEE/ACM International Conference on Automated Software Engineering Workshops (ASEW). IEEE, 2021.

Ahmad, Asma, Faisal Bukhari, and Muhammad Kamran Malik. " **Predicting Article Sentiment Analysis Impact in Twitter: A Case Study in the Field of Information Sciences**." 2021 International Conference on Innovative Computing (ICIC). IEEE, 2021.

Mustansir, Amina, Khurram Shahzad, and Muhammad Kamran Malik. " **AutoEPRS-20: extracting business process redesign suggestions from natural language text**."

In Proceedings of the 35th IEEE/ACM International Conference on Automated Software Engineering Workshops, pp. 118-124. 2020

Shahzad, Khurram, Muhammad Kamran Malik, and Khawar Mehmood. "**Perception of Wearable Intelligent Devices: A Case of Fitbit-Alta-HR.**" In International Conference on Intelligent Technologies and Applications, pp. 32-42. Springer, Singapore, 2019.

Sana Ahmad, Syed Irtaza Muzaffar, Khurram Shahzad , Muhammad Kamran Malik. (2018) "**Using BPM Frameworks for Identifying Customer Feedback About Process Performance**". Advanced Information Systems Engineering Workshops. CAISE 2018. Lecture Notes in Business Information Processing, vol 316. Springer, Cham

Shahzad, Khurram, Safia Kanwal, and Kamran Malik. "**Process Model Matching with Word Embeddings.**" In International Conference on Intelligent Technologies and Applications, pp. 838-849. Springer, Singapore, 2018.

Amna Mustansir, Khurram Shahzad, Syed Irtaza Muzaffar, Kamran Malik. (2018) "**Utilizing Customer Feedback for Business Process Performance Analysis**". Perspectives in Business Informatics Research. BIR 2018. Lecture Notes in Business Information Processing, vol 330. Springer, Cham

Samia Khaliq, Waheed Iqbal, Faisal Bukhari and Kamran Malik, "**Clustering Urdu News Using Headlines**", Sixth International Conference on Language and Technology.

Faheem Abbas, Muhammad Kamran Malik, Muhammad Umair Rasheed, Rizwan "**WikiQA – A Question Answering System on Wikipedia using Freebase, DBpedia and Infobox**", Sixth International Conference on Innovative Computing Technology (INTECH 2016).

Nayyira Karamat, Kamran Malik. Sarmad Hussain, "**Improving Generation in Machine Translation by Separating Syntactic and Morphological Processes**," in the Proceedings of 9th International Conference on Frontiers of Information Technology (FIT) 2011.

M. Kamran Malik, Aasim Ali and Shahid Siddiq, "**Behavior Of Word 'Kaa' In Urdu Language**", In proceedings of IEEE 2010 International Conference on Asian Language Processing 2010, Harbin China, 28-30 December.

Shahid Siddiq, Sarmad Hussain, Aasim Ali, M. Kamran Malik and Wajid Ali, "**Urdu Noun phrase chunking: Hybrid approach**", In proceedings of IEEE 2010 International Conference on Asian Language Processing 2010, Harbin China, 28-30 December.

Aasim Ali, Sarmad Hussain, M. Kamran Malik and Shahid Siddiq "**Study of Noun Phrase in Urdu**", in proceedings of Conference on Language and Technology 2010, Society of Natural Language Processing Pakistan, Islamabad Pakistan, 22-24 October 2010.

Wajid Ali, M. Kamran Malik, Sarmad Hussain, Shahid Saddiq and Aasim Ali, "**Urdu Noun phrase chunking: HMM based approach**", In the proceedings of IEEE 2010 International Conference on Educational and Information Technology (ICEIT 2010), Chongqing China, 17-19 September 2010, ISBN: 978-1-4244-8034-0, Vol. 2, pp. 494-497.

Muhammad Kamran Malik, Tafseer Ahmed, Sebastian Sulger, Tina Bögel, Atif Gulzar, Ghulam Raza, Sarmad Hussain and Miriam Butt:"**Transliterating Urdu for a Broad-Coverage Urdu/Hindi LFG Grammar**". Proceedings of the Seventh conference on International Language Resources and Evaluation (LREC'10). Valletta, May 2010.

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#### ACHIEVEMENTS

In Machine Learning Course (<http://www.ml-class.org>) got 100% marks.

Silver Medal in MS (Software Project Management) From NUCES-FAST.

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#### RESEARCH GRANTS

Co-Principal Investigator, Project title: ProRevMapper: Summarizing and Mapping Customer Reviews to Business Processes. By NRPU HEC (PKRS 2,000,000)

JOURNAL REVIWER	<p>ACM Transactions on Asian and Low-Resource Language Information Processing (TALLIP)</p> <p>IEEE Access, IEEE.</p> <p>Artificial Intelligence, Elsevier.</p> <p>Journal of Experimental &amp; Theoretical Artificial Intelligence, Taylor &amp; Francis.</p> <p>Knowledge-Based System, Elsevier.</p> <p>IEEE Intelligent Systems Journal, IEEE Computer Society Press.</p> <p>Machine Learning and Knowledge Extraction, Multidisciplinary Digital Publishing Institute MDPI</p>
PHD THESIS SUPERVISED	<p>On Multi-Domain Sentence Level Sentiment Analysis for Roman Urdu (<b>University of South Wales Australia</b>)</p> <p>Information Extraction from Full-Length Scientific Articles (<b>University of the Punjab, Lahore Pakistan</b>)</p>
PHD THESIS UNDER SUPERVISION	<p>Semantic Based Urdu News Recommendation System (University of the Punjab, Lahore Pakistan)</p> <p>Development of Named Entity Recognition System for Pahari Language (University of the Punjab, Lahore Pakistan)</p> <p>Hate Speech Detection: A Case Of Low-Resource Language (University of the Punjab, Lahore Pakistan)</p> <p>Multilingual Emotion Analysis: A case of Roman Urdu and English (University of the Punjab, Lahore Pakistan)</p> <p>Process Redesign (University of the Punjab, Lahore Pakistan)</p>
MS THESIS SUPERVISED	<p>Urdu Optical Character Recognition</p> <p>Improved Urdu NER by Deep Learning</p> <p>Sentiment Analysis for Urdu Tweets</p> <p>Sentiment Analysis in Urdu Language</p> <p>Text Summarization of Urdu Language</p> <p>Machine Transliteration between Indo-Pak Arabic Script and Saudi Arabic Script</p> <p>Urdu Text to Speech Synthesizer</p> <p>Hate-Speech Detection in Roman-Urdu</p> <p>Sentiment Analysis in Roman Urdu</p> <p>Intelligent Information Retrieval</p>



WikiQA – A Wikipedia based Question Answering System

A Study of English Urdu Machine Translation for Improvements

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MS THESIS UNDER SUPERVISION	Aspect Based Urdu Sentiment Analysis Author Obfuscation in Urdu Roman Urdu word Standardization Threat Detection in Urdu Language
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MEMBERSHIP	Association for Computing Machinery (ACM)
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WORKSHOP ORGANISED	1st Hands-on Workshop, Data Science in Practice at PUCIT, University of the Punjab, Lahore Pakistan. 4th Hands-on Workshop, Data Science in Practice at Nishat hotel, Lahore Pakistan.
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INVIED SPEAKER	1st Hands-on Workshop, Data Science in Practice at PUCIT, University of the Punjab, Lahore Pakistan. 2nd Hands-on Workshop, Data Science in Practice at Comsat University, Islamabad Pakistan. 3rd Hands-on Workshop, Data Science in Practice at SZABIST University, Islamabad Pakistan. 4th Hands-on Workshop, Data Science in Practice at Nishat hotel, Lahore Pakistan. 3rd International Conference of Computer Science and Allied Technologies (ICCSAT) 2020 18th International Workshop on Field and Assisitive Robotics (WFAR-18) 7th International Conference on Language and Technology
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ADMINISTR- ATIVE AND ADVISORY DUTIES AT NATIONAL LEVEL	Convener, External Review Committee for Computer Science and Information Technology Textbooks, Punjab Curriculum and Textbook Board (PCTB), Punjab, Pakistan. Member Judging Panel, National Grassroots ICT Research Initiative (NGIRI), Ignite, National Information and Communication Technology Research and Development (ICTRnD) Fund, Islamabad, Pakistan Technical Co-Chair, IEEE International Conference on Advancements in Computational Sciences (ICACS). Convener, Review Committee for the review of Curriculum of Computer Science and Information Technology for Grades VI-XII, Punjab Curriculum and Textbook Board (PCTB), Punjab, Pakistan. External Examiner, PhD Thesis Computer Science theses, Institute of Business Administration (IBA), Karachi, Pakistan Member Selection Board, Institute of Business and Information Technology (IBIT), University of the Punjab, Lahore, Punjab, Pakistan
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Member Selection Board, The Women University Multan (WUM), Multan, Punjab, Pakistan

Member Selection Board, University of Engineering and Technology (UET) Lahore, Punjab, Pakistan

Member Selection Board, Information Technology University (ITU), Lahore, Punjab, Pakistan

External Examiner, MPhil Computer Science theses, Bahria University , Lahore, Pakistan

External Examiner, MPhil Computer Science theses, Kinnaird College for Women University, Lahore, Pakistan

External Examiner, Bachelor of Science in Computer Science capstone projects, COMSATS Institute of Information Technology (CIIT), Lahore, Pakistan.

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ADMINISTRATIVE, CO AND EXTRA CURRICULAR DUTIES AT UNIVERSITY LEVEL

Program Coordinator of Software Engineering Degree (PUCIT)

Program Coordinator of Information Technology Degree (PUCIT)

Exam In-charge, PUCIT, Lahore

Member, PUCIT Research Advisory Committee (PRAC), PUCIT, Lahore, Pakistan

Member, Admission Committee, PUCIT, Lahore, Pakistan

Chairperson, Mphi/PhD admission test, PUCIT, Lahore

Member, PUCIT NCEAC Accreditation Committee.

Member, Committee to Propose Rules and Regulations for the Establishment of PUCIT Center for Entrepreneurship at PUCIT, Lahore, Pakistan

Co-Chairperson, Committee for Organizing Meeting with PUCIT Alumni CEO's at PUCIT, Lahore, Pakistan

Co-Chairperson, Committee for Organizing PUCIT Alumni Annual Dinner at PUCIT, Lahore, Pakistan

Member, Board of Studies in Information Technology & Computer Science, University of the Punjab, Lahore, Pakistan.

Member, Departmental Doctoral Program Committee (DPC), PUCIT, Lahore, Pakistan.

Member, College Council, PUCIT, Lahore, Pakistan

Faculty Advisor, PUCIT ACM Student Chapter, Lahore, Pakistan

Faculty Advisor, PUCIT Computer Science Society, Lahore, Pakistan

Faculty Advisor, PUCIT Placement Office, Lahore, Pakistan

Faculty Advisor, PUCIT Literary Society, Lahore, Pakistan

Faculty Advisor, PUCIT Media Society, Lahore, Pakistan

Member, PUCIT Scholarship Committee, Lahore, Pakistan.

CERTIFICAT-  
IONS

Huawei Certified ICT Associate - Artificial Intelligence (HCIA-AI)

Huawei Artificial Intelligence Academy Instructor