# Muhammad Yaseen Khan

Academic Curriculum Vitæ

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Pakistan URL: Google Scholar · ResearchGate · GitHub

## Educational Background

Ph.D. Mohammad Ali Jinnah University, Karachi, 2018–cont'd. Advisor: Dr. Tafseer A. Khan MS.SE Karachi Institute of Economics & Technology, 2014–2015. Advisor: Dr. Khuram N. Junejo BS.SE Karachi University, 2007–2010. Advisors: Dr. Humera Tariq and Dr. Tahseen A. Jilani

### Positions Held

Jan. 2017–Present	Senior Lecturer, Department of Computer Science, Faculty of Computing and
	Engineering, Mohammad Ali Jinnah University (MAJU), Karachi
Jan. 2019 – Present	AI/Software Developer, AskIQ
Jan. 2016–Mar. 2017	Data Scientist, Cubix Co.
June 2013–Dec. 2016	Lecturer, College of Computing and Information Sciences, Karachi Institute of
	Economics & Technology (KIET), Karachi
May 2012–June 2013	Software Engineer II, Mazik Global Technologies/ Microsoft Inc./ Tyler Tech-
	nologies Inc.
Jan. 2011–Feb. 2012	Web and iOS Application Developer, Counterpoint/Qurtaba LLC
July. 2010–Dec. 2010	Web Developer, Revolutionary Technologies
Jan. 2010–June. 2010	Web Developer, Sprintech Solutions

## TEACHING

Spring 2020
Fall 2019 CS6420 Applied Programming; CS1420 Object-Oriented Programming
Summer 2019 CS1410 Computer Programming; CS3110 Software Engineering
Spring 2019 CS6420 Applied Programming; CS6610 Information Retrieval Techniques (co-
teach with Shaukat Wasi); CS2510 Data Structures and Algorithms;
Fall 2018
Spring 2018 CS1410 Computer Programming
Fall 2017 CS1410 Computer Programming
Spring 2017 CS1410 Computer Programming; CS1420 Object-Oriented Programming;
CS5339 Data Science Essentials
2013–2016 Courses taught to undergrad students at KIET in different semesters: Pro-
gramming Fundamentals; Object-Oriented Programming; Data Structures and
Algorithms; Database and Management Systems; Data Warehousing; Web En-
gineering; Network Programming; Software Engineering; Design and Analysis
of Algorithms; Automata Theory; and Human-Computer Interaction

## Conference and Workshop Committees

- 1. Organising committee, 1st International Conference on Data Sciences, MAJU, Karachi (2019)
- 2. Trainer, 1-Day Workshop on Data Science with Python, UBIT, Karachi University (2018)
- 3. Trainer, Hands-on Programming with Python, MAJU, Karachi (2018)
- 4. Trainer, Programming with Python, Combat:18, KIET, Karachi (2018)
- 5. Coach, ICPC 2015 @ NUCES-FAST, Lahore (2015)
- 6. Faculty head, CodeJam, PAF-KIET, Karachi (2015)
- 7. Faculty head, Combat: The Computing Battle 2017, KIET, Karachi (2014)
- 8. Coach, Startup-Weekend, IBA, Karachi (2012)

## University Committees

- QEC Self-Assessment Report (SAR) for undergraduate and graduate CS and SE programmes, MAJU, Karachi (2019)
- 2. External Course Review, KIET, Karachi (2019)
- 3. Internal Facilitator for NCEAC, MAJU, Karachi (2019)
- 4. Graduate Thesis Evaluation Committee, MAJU, Karachi (2018–present)
- 5. Examination Paper Moderation Committee, MAJU, Karachi (2018–present)
- 6. Academic Advisor, MAJU, Karachi (2017–persent)
- 7. Final Year Project Evaluation/Exhibition Committee, MAJU, Karachi (2017–present)
- 8. Founding Faculty Sponsor of ACM-MAJU Student Chapter, MAJU, Karachi (2017–present)
- 9. Admission Interview Committee, MAJU, Karachi (2017–present)
- 10. Credit Transfer Committee, MAJU, Karachi (2018–present)
- 11. Faculty Sponsor of ACM-KIET Student Chapter, KIET, Karachi (2013–2015)
- 12. Co-Head, Final Year Project Committee, KIET, (2013–2016)
- 13. Final Year Project Evaluation/Exhibition Committee, KIET, (2013–2016)

## Boards

1. Member, Board of Studies, MAJU, Karachi (2017–2018)

## **PUBLICATIONS**

Items are sorted chronologically in reverse order.

#### Refereed Journal Articles

- 1. "Combining Lexicon-Based and Machine Learning Techniques for Sentiment Analysis: A Hybrid Approach". Muhammad Yaseen Khan and Khurum Nazir Junejo. *under review*.
- 2. "Depressive Sentiment Analysis in Microblogs: A Machine Learning Approach". Shah Muhammad Emaduddin, Kamran Ahsan, Muhammad Yaseen Khan, and Sohaib Ahmed; under review.
- 3. "Sentiment Analysis of Product Reviews in the Absence of Labelled Data using Supervised Learning Approaches". Warqar Muhammad, Maria Mushtaq, Khuram Nazir Junejo, and Muhammad Yaseen Khan; *Malaysian Journal of Computer Science*, volume 32, number 2, pages 118–132, 2020. Indexed in Clarivate Analytics' SCI. JCR IF:0.7. DOI: 10.22452/mjcs.vol33no2.3
- 4. "Depression Detection using Naïve Bayes: Text based approach". Shah Muhammad Emad, Kamran Ahsan, Muhammad Yaseen Khan, Shoaib Ahmed, Rafi Ullah, Kashif Rizwan, and Farhan Shafiq; *Interciencia*, volume 44, number 11, pages 174–182, 2020. Indexed in Clarivate Analytics' SCIE. JCR IF:0.26.
- 5. "On Extraction of Event Information from Social Text Stream: An Unpretentious NLP Solution". Kanwal Iqbal, Muhammad Yaseen Khan, Shaukat Wasi, Shumaila Mahboob, and Tafseer Ahmed; International Journal of Computer Science and Network Security, volume 19, number 9, pages 121–131, 2019. Indexed in Clarivate Analytics' ESCI.
- 6. "A Novel Approach For Ontology-Driven Information Retrieving Chatbot For Fashion Brands". Aisha Nazir, Muhammad Yaseen Khan, Tafseer Ahmed, Syed Imran Jami, and Tafseer Ahmed; International Journal of Advanced Computer Science and Applications, volume 10, number 9, pages 546–552, 2019. Indexed in Clarivate Analytics' ESCI.
- 7. "Developing Disease Classification System based on Keyword Extraction and Supervised Learning". Muhammad Suffian, Muhammad Yaseen Khan, and Shaukat Wasi; *International Journal of Advanced Computer Science and Applications*, volume 9, number 9, pages 599–605, 2018. Indexed in Clarivate Analytics' ESCI.

#### REFEREED BOOK CHAPTERS

- 8. "Pseudo Transfer Learning by Exploiting Monolingual Corpus: An Experiment on Roman Urdu Transliteration". Muhammad Yaseen Khan and Tafseer Ahmed; in *Intelligent Technologies and Applications*, pages. 0–0, Nov. 2019, Springer-Verlag. to appear.
- 9. "Towards a Generic Approach for PoS Tag-wise Lexical Similarity of Languages". Muhammad Suffian Nizami, Muhammad Yaseen Khan and Tafseer Ahmed; in *Intelligent Technologies and Applications*, pages. 0–0, Nov. 2019, Springer-Verlag. to appear.

#### Refereed Conference Publications

- 10. "Discovering Lexical Similarity Through Articulatory Feature-based Phonetic Edit Distance". Tafseer Ahmed, Muhammad Suffian Nizami, Muhammad Yaseen Khan; *submitted*.
- 11. "Sign Language Translation in Urdu/Hindi Through Microsoft Kinect". Sohail, Muhammad Yaseen Khan, Nisar Ahmed Siddiqui, and Kiran; in *Proceedings of the 3rd Pak-Turk Conference On Emerging Technologies*, GIKI, Pakistan. June. 2020.
- 12. "Urdu Sentiment Corpus (v1.0): Linguistic Exploration and Visualization of Labeled Dataset for Urdu Sentiment Analysis". Muhammad Yaseen Khan and Tafseer Ahmed; in *Proceedings of the 2nd IEEE International Conference On Information Science & Communication Technology*, Karachi, Pakistan. Feb. 2020. DOI: 10.1109/ICISCT49550.2020.9080043.
- 13. "Pseudo Transfer Learning by Exploiting Monolingual Corpus: An Experiment on Roman Urdu Transliteration". Muhammad Yaseen Khan and Tafseer Ahmed; in *Proceedings of the 2nd International Conference on Intelligent Technologies and Applications*, Islamia University Bhawalpur, Pakistan. Springer, pages. 0–0, Nov. 2019.
- 14. "Towards a Generic Approach for PoS Tag-wise Lexical Similarity of Languages". Muhammad Suffian Nizami, Muhammad Yaseen Khan and Tafseer Ahmed; in *Proceedings of the 2nd International Conference on Intelligent Technologies and Applications*, Islamia University Bhawalpur, Pakistan. Springer, pages. 0–0, Nov. 2019.
- 15. "Practices for Achieving Accuracy in Software Costing and Estimation". Mohammad Ayub Latif, Muhammad Yaseen Khan, and Kashif Bashir; in *Proceedings of the 2nd International Conference on Computing & Information Sciences*, Karachi Institute of Economics and Technology, Karachi, Pakistan. Nov. 2018.
- 16. "Drive pattern analyzer using smartphones". Shumaila Mahboob, Kanwal Iqbal, Hira Farman, Muhammad Yaseen Khan, and Shaukat Wasi; in *Proceedings of the 13th IEEE International Conference on Emerging Technologies*, Capital University of Science and Technology, Islamabad, Pakistan. IEEE, pages 1-5, 2017.
- 17. "Harnessing English Sentiment Lexicons for Polarity Detection in Urdu Tweets: A Baseline Approach". Muhammad Yaseen Khan, Shah Muhammad Emaduddin, and Khurum Nazir Junejo; in *Proceedings of the 11th IEEE International Conference on Semantic Computing*, San Diago, USA. IEEE, pages. 242-24, 2017.

#### Conference and Workshop Attendee

- 1. 7th Intl. Conf. on Language and Technology, CLE-UET, Lahore (2020)
- 2. 2nd Intl. Conf. on Information Science & Communication Technology, UoK, Karachi (2020)
- 3. 2nd Intl. Conf. on Intelligent Technologies and Applications, IUB, Bhahawalpur (2019)
- 4. 1st Intl. Conf. on Data Science, MAJU, Karachi (2019)
- 5. 2nd Intl. Conf. on Computing and Information Sciences, KIET, Karachi (2018)
- 6. HEC-NCEAC 3-Day Workshop on Data Science, Islamabad (2017)

## Awards and Honours

1. Awardee of Dean's List 2014 and 2015 during MS.SE, KIET

## Research Interests

Artificial Neural Networks/Deep Learning · Natural Language Processing · Information Extraction · Information Retrieval · Cognitive Computing · Affective Computing · Discourse Analysis · Computational Linguistics · Corpus Linguistics · Sociolinguistics · NLP for scared source Indic languages (specifically languages in Perso-Arabic scripts) · Emotion Detection and Sentiment Analysis in Text.

#### SKILLS

Computing ...... Python · Scikit-Learn · Kears · NLTK · NumPy · SciPy · Pandas · BeautifulSoup · MatPlotLib · SeaBorn · MatLab · Java2SE · C# · yEd · Git · Anaconda · PHP · JavaScript · MySQL ·  $\LaTeX$  Languages ..... English · Urdu · Sindhi · Punjabi · Hindi · Arabic · Persian/Farsi · Pushto

## REFERENCES

- 1. Dr. Tafseer Ahmed Khan.
- 2. Dr. Shaukat Wasi, Professor and Dean Faculty of Computing, MAJU, Karachi.
- 3. Dr. Asim Imdad Wagan, Professor and Dean Faculty of Engineering, MAJU, Karachi.
- $4.\ \, {\rm Dr.}\ \, {\rm Muhammad}\ \, {\rm Khalid}\ \, {\rm Khan},\, {\rm Professor}\ \, {\rm and}\ \, {\rm Director}\ \, {\rm CoCIS},\, {\rm PAF\text{-}KIET},\, {\rm Karachi}.$