

Muhammad Moeen Ud Din

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Profile

Senior Software Engineer, Data Specialist, and Researcher with over a decade of experience in backend development, data engineering, and NLP. Proficient in designing and deploying scalable, cloud-based solutions on Azure, I lead high-impact projects and have contributed to the field through published research, MS thesis mentorship, and development of data-driven products. Recognized for delivering quality solutions in AI, data science, and full-stack development.

Education

Lahore University of Management Sciences, MS in Computer Science Aug 2009 – May 2012

- GPA: 3.03/4.0

- **Coursework:** Advance Topics in Data mining, Intelligent Computing

National University of Computer and Emerging Sciences, BS in Computer Science Aug 2001 – May 2005

- GPA: 2.89/4.0 (Awarded 50% need-cum-merit scholarship)
- **Coursework:** Artificial Intelligence

Experience

Visiting Lecturer, ITU – Lahore, PK Aug 2024 – ongoing

- Teaching Web Design and Development to 123 students divided in two sections
- Teaching method to lower the barriers for achievements to bring learning motivation up
- Evaluations on learning behaviors and practical attempts

Senior Software Engineer, Discourse Analytics – Islamabad, PK Sept 2015 – Jan 2024

- Lead and owner of Polling application, data analysis and reports to customer success manager
- End-to-end Azure deployments with CI with Microsoft Azure artefacts and dependencies.
- Delivered more than 15 clients for average tenure of 9 months engagements
- Feature extraction, Predictive and Prescriptive modeling based on human cognitive models
- Domains: EduTech, Mortgage-Finance, Health and Domestic abuse

Research Associate, Data Science Lab, ITU – Lahore, PK Aug 2014 – Sept 2015

- Research work on topical movements on twitter datasets, Roman Urdu Dictionary hybrid app, credited for Mentoring MS Thesis student

Software Engineer, iOS, Matrix Sourcing – Lahore, PK Oct 2011 – Aug 2014

- Designed an iOS for iPad for merchandiser to report product quality in assembly line
- API for iOS app in Php

Publications

An Unsupervised Method for Discovering Lexical Variations in Roman Urdu Informal Text. Sept 2015

Abdul Rafae, Abdul Qayyum, *Muhammad Moeen Uddin*, Asim Karim, Hassan Sajjad, and Faisal Kamiran.

In: Proceedings of the Conference on Empirical Methods in Natural Language Processing (EMNLP). Lisbon, Portugal

Understanding Types of Users on Twitter May 2014

Mohammad Moeen Uddin, Mohammad Imran, and Hassan Sajjad.

In: Proceedings of the 6th ASE International Conference in Social Computing (SocialCom). Stanford, USA

- Personalized versus non-personalized tag recommendation: A suitability study on three social networks,** Sept 2011
M. M. Uddin, M. T. Hassan, and A. Karim.
 IEEE 14th International Multitopic Conference, Karachi, Pakistan, 2011, pp. 56-61.
- Technical Report on Tensor based Personalized Tag Recommendation** Sept 2011
Muhammad Moeen Uddin, Supervisor: Prof. Asim Karim

Projects

- Simple RAG on UK court proceedings dataset** July 2024 - Sept 2024
- UK court proceedings dataset utilizing Gen AI capabilities with RAG implementation on Azure stack
 - Tools Used: Python
 - Demo
- FirstDraftScore: Measuring quality of creative content based on the seed directions** 2022 - onwards
- In a blog creating, each iteration of content is saved, and processed until a final draft is ready, Model that infer quality score of first draft ready to publish.
 - Tools Used: Python
- Behavioral signals extraction and mapping** 2018 - onwards
- Data analysis of about 30 universities data for signal extraction and ingestion automation
 - Tools Used: Python, Azure Functions
- Churn Prediction Data modeling** 2023 - 24
- Accurately reproduced a student's churn prediction model by analyzing their dataset, understanding complex business rules, and establishing a robust base data model, ensuring alignment with client objectives and predictive accuracy.
 - Tools Used: Python, Notebook
 - Demo at discourseanalytics.com
- Survey Application with rule engine** 2015 - 2018
- Impact: 15 percent more queries and 5 percent more recurring sign ups
 - Tools Used: C, Angularjs
- Topical trend analysis on Twitter data** 2014
- Topic clustering with sentiment analysis on 20 keywords based dataset - overall 2 million tweets.
 - Tools Used: Java

References

- Dr. Asim Karim, Professor, Dept of Computer Sc. Lahore University of Management Science, Lahore, Pakistan.
 akarim@lums.edu.pk
- Dr. Hassan Sajjad, Associate Professor, Faculty of Computer science, Dalhousie University, Halifax, Canada.
 hsajjad@dal.ca