

MARIAM MEMON

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PERSONAL PROFILE

Competent and hard working. Have keen interest in research and development in the field of Software Engineering.

AREAS OF INTEREST

Machine Learning, Artificial Intelligence, Large Language Models, Programming

PROFESSIONAL EXPERIENCE

Mar 2018-Present	Lecturer Department of Software Engineering, Mehran UET, Jamshoro (Public Sector) Courses taught: Object-oriented programming, Data Structures & Algorithms, Mobile Application Development, Formal Methods in Software Engineering, Distributed Computing, Artificial Intelligence.
Apr 2017-Mar 2018	Junior PeopleSoft Consultant Liaquat University of Medical & Health Sciences, Jamshoro (Public Sector)
Jan-Mar 2017	Android Developer (Part-Time) CIC Hub, Hyderabad (Private Sector)
Jun-Aug 2015	Internee – Android Developer Codex Solutions, Hyderabad (Private Sector)

ACADEMIC PROFILE

Year	Qualification	GPA/Percentage
2021	M.E (Software Engineering) Mehran University of Engineering & Technology, Jamshoro	4.00/4.00 CGPA
2016	B.E (Software Engineering) Mehran University of Engineering & Technology, Jamshoro	3.98/4.00 CGPA
2012	Intermediate - H.S.C (Pre-Engineering) B.I.S.E, Hyderabad	83.27%
2010	Matriculation - S.S.C (Computer Science) B.I.S.E, Hyderabad	87.65%

AWARDS AND ACHIEVEMENTS

- **Gold Medal** (1st Position in Faculty of Electrical, Electronics and Computer Systems Engineering).
- **Silver Medal** (1st Position in B.E Software Engineering)
- Received **Merit Scholarships** for securing positions during graduation.

RESEARCH PUBLICATIONS

Journal Articles

1. Kaimkhani, N., Sami, M., Dewani, A., Ahmed, J., & **Jawed, M.** (2026). Depression Detection in Social Media Data for Resource-Constrained Roman Urdu Using Machine Learning Methods. *Mehran University Research Journal of Engineering and Technology*, 45(3), 143-151.
2. Dewani, A., Sami, M., Agha, D., Kumari, V., & **Memon, M.** (2026). Model Interpretability with XAI for Sarcastic Behavior Detection in Low-Resource Roman Urdu Language using Machine Learning and Ensembled Approaches. *VFAST Transactions on Software Engineering*, 14(2), 01-16.

3. Sami, M., Dewani, A., Ahmed, J., & **Memon, M.** (2026). EduNet: Leveraging MERN Stack for Career Development through Professional and Student Interaction. *Bulletin of Multidisciplinary Studies*, 3(1), 31–41. <https://doi.org/10.48112/bms.v3i1.1226>
4. Razaque, A., Rai, P., Sami, M., Baloch, J., Dewani, A., & **Memon, M.** (2026). Transforming Early Autism Screening with Multimodal Machine Learning in Digital Health. *Mehran University Research Journal of Engineering and Technology*, 45(1), 182-191.
5. Hissam, H., Majid, S. B., Dewani, A., Sami, M., & **Memon, M.** (2025). Position Prediction and Talent Discovery in Football Leagues Using Performance Data. *International Journal of Innovations in Science & Technology*, 7(4), 3169–3185. Retrieved from <https://journal.50sea.com/index.php/IJIST/article/view/1675>
6. **Memon, M.**, Unar, A. A., Ahmed, S. S., Daudpoto, G. H., & Jaffari, R. (2023). Feature-Based Semi-Supervised Learning Approach to Android Malware Detection. *Engineering Proceedings*, 32(1), 6.
7. Agha, D., Meghji, A. F., Bhatti, S., & **Memon, M.** (2023). Educational Data Mining in Outcome-Based Education: An Analysis of Predictive Models for Program Learning Outcome Attainment. *VAWKUM Transactions on Computer Sciences*, 11(2), 123-138.
8. Bhatti, S., **Memon, M.**, & Meghji, A. F. (2023). Scrutinizing Outcome Assessment of Outcome-based Education using Q-OBE in Engineering Education. *International Journal of Innovation in Teaching and Learning (IJITL)*, 9(1), 55-74.
9. **Memon, M.**, Bhatti, S., & Memon, M. (2021). Bibliometric Analysis of Information and Communication Technology Research in Pakistan. *International Journal of Scientific Research in Computer Science, Engineering and Information Technology*, 3307, 267-72.

International Conference Papers

1. **Memon, M.**, Unar, A. A., Ahmed, S. S., Daudpoto, G. H., & Jaffari, R. (2023). Feature-Based Semi-Supervised Learning Approach to Android Malware Detection. In the *2nd International Conference on Emerging Trends in Electronic and Telecommunication Engineering, 2023 (INTERACT-2023)*. Karachi, Pakistan. 15-16 March 2023.
2. Maheen Mastoi, Isma Farah Siddiqui, **Mariam Memon**. Context-Aware System to Locate Objects Using Google Awareness API. In the *12th International Conference on Internet (ICONI 2020)*. Jeju, South Korea. 13-16 December 2020.

Papers in Progress

1. Improving Structural Consistency of LLM-Generated UML Class Diagrams from Source Code through Fine-Tuning and CoT Prompting. (**Submitted in Journal of Object Technology**)

UNDERGRADUATE FINAL YEAR PROJECTS SUPERVISED

S.No.	Project Title	Year
1	GreenStreak – Gamifying Environmental Stewardship through Social Media	2025
2	FocalFinder – Revolutionizing Freelancing Photography Connections using AI	2025
3	SkillSwap – A skill sharing and learning website	2025
4	PakAlert – Disaster Response, Relief, and Analytics Systems	2024
5	SnapShop: E-Commerce App with Visual Search	2024
6	Crime Reporting and Prevention System	2024
7	Spot Holder	2023
8	Reliable Safety App	2023
9	Web Application using Microservices Architecture	2023
10	Mobile Wallet	2022
11	Image Search Engine	2022
12	A Decentralized Military Grade Encrypted Chat App using Blockchain Technology	2022
13	Covid-19 Test Recommender with Cough Sensing	2021
14	RentX – An online C2C rent service application for Pakistan	2020
15	Fleet Management System for for SSGC Operational Vehicles	2020
16	OBE based Classroom Management System for Department of Software Engineering	2020
17	Efficient Route Tracking for Delivery of Cooked Food	2019

SKILLS SET

- **Programming:** Python, Java, C++, Dart
- **AI/ML:** Data preprocessing, model building, evaluation
- **Development:** Flutter, Android, Web technologies
- **Cloud/Tools:** AWS, Firebase, Google Cloud Platform, Microsoft Azure
- **Formal Modeling:** UML, OCL, Alloy
- **Databases:** SQL Server, MySQL, SQLite, Firestore

PROFESSIONAL ACTIVITIES

- Convener – Departmental Outcome based Education (OBE) Committee
- Developer – Departmental Website
- Team member – Self-assessment Manual for Department of Software Engineering
- Member – Course Review Committee
- Department Focal Person & Trainer – Q-OBE Software for OBE based results.
- Class Advisor – Batch of 2023

CONDUCTED SEMINARS AND TRAININGS

- A seminar on “*Achieving Results: A Deep Dive into Outcome-Based Education*” for the Students of Department of Software Engineering. Date: 25-03-2024
- A training for newly hired faculty members in the Department of Software Engineering on *Quality Outcome Based Education (Q-OBE) Portal for Results management (qualityobe.com)*. Date: 19 April 2023
- A seminar on *Outcome based Education System and a hands-on workshop on Q-OBE*. Date: 15 November 2021

CERTIFICATIONS

- Coursera Specialization – Google AI Essentials (AI fundamentals, prompt engineering, responsible AI)

ENGLISH LANGUAGE PROFICIENCY CERTIFICATION (IELTS)

Listening	Reading	Speaking	Writing	Overall
9.0	9.0	7.5	7.5	8.5/9.0

VOLUNTEER WORK

- Participant in the Active Citizenship Program - British Council 2016
- Volunteer at the Big Event Pakistan 2015.
- Volunteer in WWF-Pakistan’s ECO Internship Program.

REFERENCES

Prof. Dr. Naeem Mahoto

Chairman
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University of Engineering & Technology,
Jamshoro
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Prof. Dr. Sania Bhatti

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