

Arsha Kumari

Cell No: +923336059706

Email: arsharathi56@gmail.com

PEC No: ELECTRO/24909

Address: Flat # E-1 Foji Arcade Plaza near Shahji Hotel Hirabad Hyderabad,
Pakistan.

Personal Statement

An enthusiastic and hardworking young professional with a strong background in artificial intelligence and communication system combining technical knowledge with hands-on experience in both these fields. Committed to delivering innovative solutions, ensuring precision, and exceeding client expectations by staying updated with the latest advancements in the field of electronic engineering. I am seeking an opportunity to contribute my expertise in electronic engineering to drive advancements in the field and make a positive impact.

Work Experience

8/2022- Present

Lecturer (Contract)

Dept. of Electronic Engineering Mehran University Jamshoro

Responsibilities

- Delivering lectures and conducting Labs on Embedded System and communication system
- Co-Supervising final year Projects in the following areas:
 - **IOT, LiFi technology, Machine Learning**
- To assure the Quality assurance, quality control and the risk management of all the laboratories in department being the Convayer in departmental LQMC committee.
- To support, mentor, guide and assist the students of first year in their academic and personal journey being the class Advisor.
- Co-coordinating in final year project exhibition, conferences arranged by department, sports competition to manage timelines, resources and communication to ensure the smooth execution of departmental activities.

12/2019- 07/2021

Lab Engineer

Dept. of Electrical Engineering ISRA University Hyderabad, Pakistan

Responsibilities

- Conducting Labs on various electronics subjects including Electronic Circuit Design, **Artificial Intelligence, Communication system**, Measurement and Instrumentation, Digital Signal Processing, FPGA based system design.
- Co-Supervising final year Projects in the following areas:
 - IOT, Machine Learning

02/2017-07/2018

Teaching Assistant (T.A)

Dept. of Electronic Engineering Mehran UET Jamshoro, Pakistan

Responsibilities

- Making Labs handouts of different electronics kits such as Measurement and Instrumentation, Communication System and Electronic circuit design.
- Conducting labs of Communication system, digital signal processing and digital electronics.

Publications

1. S. Kumari, M. O. Raza and A. Kumari, "Performance Evaluation Of Machine Learning Algorithms For Rainfall Prediction Using Dimensionality Reduction Techniques," 2023 4th International Conference on Computing, Mathematics and Engineering Technologies (iCoMET), Sukkur, Pakistan, 2023, pp. 1-6, doi: 10.1109/iCoMET57998.2023.10109001.
2. Kumari, S. ., Bhatti, S. ., Memon, M. A. ., Kumari, A. ., & Umar, A. . (2022). CONTRIBUTION OF PAKISTANI FEMALE RESEARCHERS IN ICT: A BIBLIOMETRIC ANALYSIS. Pakistan Journal of Women's Studies: Alam-E-Niswan, 29(1), 141–157.
3. S. Kumari, S. Bhatti, M. A. Memon, A. Umar, and A. Kumari, "Analysis Of Women Empowerment In Ict Institutes Of Pakistan," Webology, vol. 19, no. 3, pp. 212–225, 2022.
4. Junejo, M., Kalhoro, A.N., & Kumari, A. (2020). Fuzzy Logic Based PID Auto Tuning Method of QNET 2.0 VTOL. International Journal of Information Technology and Computer Science, 12, 9-16.
5. Kumari, A., Sangrasi, D.M., Bhatti, S., Chowdhry, B.S., & Kumari, S.V. (2019). Off-line Sindhi Handwritten Character Identification. International Journal of Information Technology and Computer Science, 6, 9-17

Education

2017-2020	Master's of Engineering (Specialized in Electronic System Engineering) Mehran University of Engineering and Technology (MUET) Jamshoro, Sindh Pakistan CGPA: 4/4 Grade/Division: 1 st Class Research Topic:- Off-line Sindhi Handwritten Character identification based on Machine learning
2012-2016	Bachelor's of Engineering (Electronic Engineering) Mehran University of Engineering and Technology (MUET) Jamshoro, Sindh Pakistan CGPA: 3.82/4 Grade/Division: 1 st Class Final Year Project:- Perceiving Digital Information from Real World
2010-2012	Intermediate (Pre-Engineering) Board of Intermediate and Secondary Education Mirpurkhas (BISE MPS) Percentage: 78% Grade: A
2008-2010	Matriculation (General Science) Board of Intermediate and Secondary Education Mirpurkhas (BISE MPS) Percentage: 81% Grade: A1

Honors & Awards

- Grantee of the annual scholarship for securing a position in the top ten students in Bachelor's
- Awarded student of month certificate in Horizon (Home of English & Computer Network)
- Finalist for PM laptop Scheme
- Remained position holder from 6th to 8th class

Skills & Abilities

- **Tools skills:** MATLAB, Arduino IDE, Proteous, Multisim, Xilinx ISE, Anaconda
- **Programming Skills:** C, C++, **Python (OpenCV)**, **TensorFlow**, VHDL, HTML, JAVA script, CSS
- **Computer Skills:** Microsoft Word, Microsoft Excel & Microsoft PowerPoint.

- **Soft Skills:** Positive Attitude, Hardworking & Acting as a teamplayer.
- Good Communication Skills,

Workshops/Trainings/Programs Attended

- **CPD courses**
 - Solar and Wind power potential in Pakistan (19/5/2023)
 - Personal Branding and career choices for engineers (5/7/2022)
 - Risk Assessment and Management (28/5/2022)
 - Digital Transformation and Impact of IOT on Education, Industry, Health Sector, and Society Towards Creating Job Opportunities (27/5/2022)
 - 5G Networks Architecture and Features High Level Perspective (23/6/2021)
 - Leadership and Engineering: A Dichotomy or Misunderstanding (19/6/2021)
- **Workshops**
 - How to write a research paper workshop (2017)?
 - 2-Days MATLAB Workshop (2015)
- **Internships**
 - Development of Micro-controller based EMS (Summer Internship program 2014)
 - Exploring Power Electronics Modules (Winter Internship program 2013)
- **Participations**
 - IEEE talks on Emerging Trends and Applications of Control Systems.
 - Delegate in MUETMUN'16.
 - MUN Day Training Session, 2015.
 - Remain Participant in IMMUE'T'15.
 - Industrial Student Organization.

Technical Summary

- **Kits Worked upon:**
 - Module MCM14 (TRANSDUCERS)/EV
 - Module MCM20/EV (ANALOG COMMUNICATIONS 1)
 - Xilinx FPGA Board
 - Instrumentation and Measurement trainer (IT-5927)

Project Details

- Offline Sindhi Handwritten Character Recognition
- Perceiving Digital Information in Real World
- DC Power Supply
- Transistor Tester Circuit
- Darkness Detector
- Digital Counter for RPM

Certifications

- **6/2021** National Freelance Training Program (NFTP)
- **12/2019** Microsoft office word certified (MOS)

Volunteering Experience

- Performed as an Active Content writer on the PRIDE of MUET platform
- Volunteered as Graphic Designer in the IEEE Karachi Section WIE AG
- Remained as an organizer in the IMMUE'T'15 event

Area of Interest

- Machine Learning
- Computer Vision
- **Artificial Intelligence**
- IOT

Personal Details

Date of Birth : 5th February 1995
Gender : Female
Marital Status : Single
Languages Known: English, Urdu, and Sindhi
Hobbies : Reading, Teaching, Playing basketball, Writing, Travelling to natural places