



Mashab Ali Javed



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IELTS Band Score : 6.5 (25 Aug 2024)

RESEARCH INTEREST

- Machine Learning | Federated Learning | Privacy Preservation | Cybersecurity | Blockchain

EDUCATION / TRAINING

MS Electrical Engineering (CGPA 3.83 / 4)

Sir Syed CASE Institute of Technology, Pakistan [Feb 2020 – Nov 2023]

- Advanced Computer Networks, NLP, Cryptography and Network Security, Cybersecurity, BCT, Optimization Techniques, Linear Control Systems, Wireless Communication
- Thesis:** Abnormalities Detection in Chest CT Scan Images using Federated and Deep Learning

BE Computer Engineering (CGPA 3.24 / 4)

National University of Sciences and Technology, Pakistan [Oct 2008 – Aug 2012]

- Project:** Rocket Propelled Grenade (RPG-7) Simulator

OEM Training

Shanghai Academy of Spaceflight Technology, China [Sep 2022 – Nov 2022]

- OEM level operating and maintenance training on radar system

RESEARCH PUBLICATIONS

Javed, M. A., Hussain, S. J., Yasmeen, A., Khalil, A., & Iqbal, A. (2024). Abnormalities Detection in Chest CT Scan Images using Federated and Deep Learning. *Proceedings of the 19th International Conference on Emerging Technologies (ICET)*. IEEE. <https://doi.org/10.1109/ICET63392.2024.10935071>

Shah, Y. A., Aimen, U., Bushra, R., Khalil, A., Shahbaz, S. A., & Javed, M. A. (2024). Cognitive Therapy and Routine Recommendation System (CTRRS): An AI-Driven Approach for Mental Health. *VFAST Transactions on Software Engineering*, 12(4), 282–301. <https://doi.org/10.21015/vtse.v12i4.1976>

Riaz, S., Taimour, R., Javed, M. A., Khalil, A., Afridi, Y. S., & Iqbal, A. (2024). A Deep Learning Based Mobile Application for Wheat Disease Diagnosis. *International Journal of Innovations in Science & Technology*, 6(5), 51–62. <https://journal.50sea.com/index.php/IJIST/article/view/770>

WORK EXPERIENCE

Technical Project Manager

Electrical and Mechanical Engineers [Jan 2023 – Current]

Hyderabad | Pakistan

- Spearheaded multiple technical projects focused on modifying and maintaining a heavy vehicle fleet.
- Managed the maintenance and training of the office automation system and electronic resource management system, while implementing cybersecurity Standard Operating Procedures (SOPs) across the organization.
- Played a pivotal role in maintaining a well-organized and disciplined work environment within the company of over 100 technicians.

Radar Group Supervisor

Electrical and Mechanical Engineers [Jan 2020 – Jan 2023]

Islamabad | Pakistan

- Formulated and supervised repair methodologies, implementing innovative strategies for radar systems to ensure optimal performance.
- Led spare forecasting initiatives, conducting fault trend analyses, and executing hands-on repair of faulty radar assemblies, showcasing technical expertise while ensuring precise diagnostics and resolutions.
- Provided training to newly inducted technical staff, imparting skills to foster a proficient and cohesive team environment.

Junior Engineer

Electrical and Mechanical Engineers [Oct 2013 – Dec 2019]

Sialkot | Pakistan

- Led the technical team responsible for the repair and maintenance of electronic systems, ensuring optimal performance, reliability and adherence to safety standards.
- Contributed to the design and implementation of control circuits and hardware systems, collaborating with defence force members to gather detailed specifications and requirements.
- Coordinated with third-party vendors to ensure the timely procurement and delivery of critical components, reducing project delays and upholding quality standards.
- Volunteered as the project manager of a special needs children school.

VOLUNTEER EXPERIENCE

Project Manager

Little Angels Home [Aug 2017 – Sep 2019]

Sialkot | Pakistan

- Procured specialized equipment and training aids tailored to the unique needs of special children.
- Conducted teacher inductions for optimal care and education.
- Contributed to customizing study syllabus for individual student needs.
- Collaborated to create an inclusive learning environment for special children.

PROJECTS

Semester Projects

- Developed a Resume Recommender using NLP to match candidate profiles with job requirements.
- Implemented Genetic Algorithm for efficient Round Robin CPU scheduling.
- Led the conceptualization of a blockchain-based dairy SCM system for comprehensive workflow and benefits.

Professional Projects

- Engineered wireless audio surveillance device for military use, transmitting real-time audio from behind walls.
- Engineered intelligent vehicle maintenance tracking software for real-time monitoring and automated notifications, enhancing military fleet efficiency.

Bachelor's Final Year Project

Rocket Propelled Grenade (RPG-7) Simulator

- The objective of the RPG-7 simulator is to provide comprehensive education on RPG-7 handling to soldiers.
- The utilization of the NeoAxis Engine replicates RPG-7 firing mechanisms and ballistic trajectory, ensuring realistic and safe training environments.
- Integration of GlovePie enables the use of the Wiimote as a precision pointing device, thereby enhancing the usability of the simulator.

SKILLS

Personal : Leadership, Team Worker, Problem Solver, Well-organized, Goal Oriented

Professional : Python, PHP, Wireshark, MATLAB, C/C++ | Pytorch, Keras, Tensorflow, Scikit-learn

PROFESSIONAL AFFILIATIONS AND MEMBERSHIPS

Pakistan Engineering Council

- Registered Engineer | Registration no. COMP – 18073

The Institute of Engineers Pakistan

- Registration no. M-23420 / HYD-250

CERTIFICATIONS

- Certified in Cybersecurity [Coursera | ISC2]
- System Security Certified Practitioner (SSCP) [Coursera | ISC2]
- GenAI Basics – How LLMs Work [Coursera | Duke University]
- Large Language Models [Coursera | H2O.ai]

HONORS / AWARDS

- Secured fully funded position to study in Bachelor of Computer Engineering at NUST University, Islamabad Pakistan.
- Secured 80% tuition fee waiver during Master degree at Sir Syed CASE Institute of Technology, Islamabad Pakistan.

REFERENCES

Dr Syed Jawad Hussain, Associate Professor & Chairperson | Supervisor

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Dr Muhammad Usman Akram, Professor / Associate Head of Department | Faculty

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