

Muhammad Nauman

AI Researcher

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Research Interests

- Machine Learning** Interested in applying in supervised machine learning techniques to extensive datasets and optimizing the models. To develop solutions to identify and classify objects and react in real-time.
- Computer Application** knowledge representation and discovery, computer system structure, computer composition experiment, database principle and digital electronic technology.
- Embedded Systems** focusing on the integration of artificial intelligence and machine learning algorithms to enhance real-time processing capabilities, enabling smarter and more autonomous embedded devices for diverse applications such as IOT and edge computing.

Publications

- Paper 1 Dr.Ghulam Ali* Dr.Rana Javed, **Muhammad Nauman** "Lyme Rashes Disease Classification Using Deep Feature Fusion Technique" is indexed in the Science Citation Index Expanded (SCIE) and holds a Q2 ranking in the category of Dermatology) link: <https://doi.org/10.1111/srt.13519>
- Paper 2 Inam Ul Haq* Ahmad Ali,Bilal Shabbir Qaisar,Hafiz Muhammad Adnan,Mubasher Hussain, **Muhammad Nauman**"Steganography Techniques for Medical Images: A Recommender Paper Published on IJISRT (International Journal of Innovative Science and Research Technology)"(HEC recognized Y Category) link: <https://ijisrt.com/assets/upload/files/IJISRT23SEP121.pdf>
- Paper 3 M. Mudasar Azeem*, Inam Ul Haq, **Muhammad Nauman** ,Muhammad Talha Hashmi, Bilal Shabbir Qaisar "Mask Detection Using Deep Learning Methods Published on International Journal of Computing and Digital Systems(HEC recognized Y Category)link: <https://rb.gy/mdeubg>
- Paper 4 Bilal Shabbir Qaisar,Inam Ul Haq, M. Mudasar Azeem, **Muhammad Nauman**, Javed Yasin"Monkeypox Virus Detection using Deep Learning Methods on Springer Nature(Y Category Journal)link: <https://rb.gy/81j9im>

Work Experiences(Academic)

- 2023- **Visiting Lecturer**, *University of Central Punjab Okara, Pakistan*
Current Teaching Artificial Intelligence , DLD, Research Methodology, IT, Operating System
- 2023- **Robotics Lecturer**, *Punjab Colleges Okara, Pakistan*
Current Designed Curriculum based on Humanoid Robots,used Micro controllers, Trained students for Autonomous Projects, Robotics Arm, Head, Line Following Robot, SUMO Wrestling Robot, Autonomous cars, Pen Plotter etc.
- 2019-23 **IT Trainer**, *University College of Management and Technology Okara*
Supported Lab Research Projects by Conducting literature review of the top journal and case studies and developed fact sheet for the online business, leading toward a digital entrepreneurship, worked on case studies did Social Media Manager, e-commerce, e-commerce Strategist, Lead Generation.

Education

- 2020–2023 **Master in Computer Science(MSCS)18 Year Education CGPA: 3.26/4.00, University of Okara, Pakistan**
- Thesis **"Lyme Rashes Disease Detection using Stack Ensemble Deep Learning Technique (LRDD-SE-DLT)"**, *under supervision of, Dr. Ghulam Ali*
- 2016–2018 **MCS 16 Year Education, GPA: 3.29/4.00, University of Sahiwal, Pakistan,**
FYP **Final Year Project:** , *"Desktop Application & Complete Court Management System" under supervision of Dr.Shafique*
- 2014–2016 **Bachelor of Sciences-BSC 14 Year Education, Govt. Associate Boys College, Okara, Pakistan**

Professional Education

2019-2021 B.Ed, GPA: 3.30/4.00, Virtual University of Pakistan, Lahore, Pakistan
B.Ed Thesis "A comparative study of online teaching & conventional teaching during COVID-19," under supervision of Dr. Nauman A.Abdullah

Skills

Machine Learning **Classification**, Neural Network, Naive Bayes, SVM, Regression– Linear Regression, Logistic Regression, KNN, Tree Based– Random Forest Packages– Scikit Learn, Numpy, Scipy, Scikit-Image, Pandas, Plotly

Deep Learning **Convolutional Neural Network**, , Recurrent Neural Network, GAN, YOLO, Faster CNN Packages– PyTorch, FastAI, TensorFlow

Embedded Systems **Mirco-Controllers**, *Arduino, Raspberry Pi Series, NodeMCU, Robotics Sensors*, , Basic Electronics

Programming **Python**, *Arduino, HTML5, CSS3, Wordpress Website, SQL, VB.NET, Jabref, LATEX*

Digital Marketing **Social Media Advertising**, *Google Analytics, SEO/PPC, Ecommerce, Lead Generation, Academic Writing, Freelancing, IBM SPSS, MS Office*

Softwares **MATLAB**, *Arduino, Oracle DBMS, Adobe Photoshop, Camtasia, Aftereffects, IBM SPSS, MS Office*

Writing skill **Stenography**, *pitman Shorthand Writing*

Languages **English**, *Urdu, Hindi, Punjabi (Can Read, Write , speaking and listening Effectively)*

Others **Can write well-organized and structured manuscripts for publication**

Honors & Awards

IT Award Managing IT Operations of School and increased students strength through social media marketing promotion

Robotics Award 2023-24 PGC Held Robotics Exhibition our team Secured First and Second position in Robotics Competition and exhibition

Fee Waiver University Scholarship– Tuition fee Waiver for 3rd semester on getting top scores from the class (among 62 students) in Master class

Leadership Class Representative– Elected as a class representative, connected students over digital groups for announcements, and handled class in Teacher's absence by discussing projects

Winning Captain Championship– Winning captain of cricket team for the department of Computer science sports gala 2017.

Fiverr Batch Received level 1 seller batch(@naumang)– providing digital services International clients

Professional Certifications

Short Courses Diploma in IT Programming Tech, Building Painter, Industrial Electrician, Google Analytic Academy, WordPress, Digital Marketing and Graphic Design

References

Prof. Bilal Shabbir Qaisar, *Department of computer science COMSATS University Islamabad, Sahiwal Campus Pakistan*, Email: Bilalshabbir@cuisahiwal.edu.pk Phone +92348-6668003

Dr.Rana Javed Rashid, *Department of computer science University of okara,Pakistan*, Email: Rana-JavedRashid@gmail.com, Phone +92331-2627786