

Arbab Waseem Abbas

Curriculum Vitae



Personal information

First name / Surname
Father Name

Engr. Dr. Arbab Waseem Abbas
Arbab Liaqat Ali Khan

Address (Residential/Postal)

Mohallah Arbaban P-O #25140, P-O Tehkal Bala Peshawar, Pakistan.

Address (Official/Postal)

Institute of Computer Sciences and Information Technology, The University of Agriculture Peshawar, Khyber Pakhtunkhwa, Pakistan, 25120.

Telephone

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Mobile: +92 (0) 301 5922642,
+92 (0) 333 3331949

E-mail

aristocratarbab@yahoo.com, aristocratarbab@aup.edu.pk

Nationality

Pakistani

Date of birth

April 24, 1986

Gender

Male

PEC Reg. Number

COMP/6328

PCD Number

23125

Google scholar link

<https://scholar.google.com/citations?user=-u1d8nAAAAAJ&hl=en>,

LinkedIn link

<https://www.linkedin.com/in/arbab-waseem-abbas-abb6b0286/>

Research Interests

IoT, Cyber Security, Artificial Intelligence, Pattern recognition, Digital Image Processing

Work experience

Dates

September 2011 – present

Position held

Assistant Professor

Name and address of employer

Institute of Computer Sciences and Information Technology, Faculty of Management and Computer Sciences, The University of Agriculture Peshawar, Khyber Pakhtunkhwa, Pakistan, 25120.

Main activities and responsibilities

www.aup.edu.pk

Teaching courses at undergraduate and postgraduate level.

Type of business or sector

Public Sector University

Additional Responsibility

Co-ordinator Post graduate Programs, Member BoS, Advisor post-graduate and under-graduate studies; duties include guiding students in the selection of their projects, and coordination of the overall research and co-curricular activities carried out in the department.

Dates

July 2009 – September 2011

Occupation or position held

Web-Master, Trainee and Transmission-Engineer

Main activities and responsibilities

Web-designing & development, Networking, News-letter design, Computer Lab Administration, computer programming and Control of BTS & BSC using NETACT software.

Name and address of employer

Directorate of Science & Technology (DoST) Govt. Of KPK, Ample Software Solution and Telenor.

Education and training

Dates

March 2015 – May 2021

Title of qualification awarded

Ph.D. in Computer Systems Engineering, UET Peshawar

Main area of research

Cyber security, Internet of Things, Smart Logistics, Simulation and modelling.

Thesis Title

Cyber Secured Framework for Control and Monitoring of IoT Devices in Smart Logistics

Name of organisation

Department of Computer Systems Engineering, University of Engineering & Technology Peshawar, Pakistan

Dates

September 2010 – January 2013

Title of qualification awarded

Master of Science in Computer Systems Engineering

Main area of research

Artificial Intelligence and Machine Learning

Thesis Title

Automatic Digit Recognition in Pashto Language

Name of organisation

Department of Computer Systems Engineering, University of Engineering & Technology Peshawar.

Dates	September 2005 – September 2009																																								
Title of qualification awarded	Bachelor of Science in Computer Systems Engineering																																								
Principal subjects	Visual Computing, Pattern Recognition, Image Processing, Digital System Design, Web Engineering																																								
FYP	Implementation of an Efficient Digital Image Processor Using CORDIC & SVD on FPGA																																								
Name of organisation	Department of Computer Systems Engineering, University of Engineering and Technology, Peshawar.																																								
Personal skills																																									
Mother tongue	Pashto																																								
Self-assessment	<table><tr><th colspan="4">Understanding</th><th colspan="4">Speaking</th><th colspan="2">Writing</th></tr><tr><th colspan="2">Listening</th><th colspan="2">Reading</th><th colspan="2">Spoken interaction</th><th colspan="2">Spoken production</th><th colspan="2"></th></tr><tr><td>B2</td><td>Independent User</td><td>C2</td><td>Proficient User</td><td>C2</td><td>Proficient User</td><td>B2</td><td>Independent User</td><td>C1</td><td>Proficient User</td></tr><tr><td>C2</td><td>Proficient User</td><td>C2</td><td>Proficient User</td><td>C2</td><td>Proficient User</td><td>C2</td><td>Proficient User</td><td>C2</td><td>Proficient User</td></tr></table>	Understanding				Speaking				Writing		Listening		Reading		Spoken interaction		Spoken production				B2	Independent User	C2	Proficient User	C2	Proficient User	B2	Independent User	C1	Proficient User	C2	Proficient User	C2	Proficient User	C2	Proficient User	C2	Proficient User	C2	Proficient User
Understanding				Speaking				Writing																																	
Listening		Reading		Spoken interaction		Spoken production																																			
B2	Independent User	C2	Proficient User	C2	Proficient User	B2	Independent User	C1	Proficient User																																
C2	Proficient User	C2	Proficient User	C2	Proficient User	C2	Proficient User	C2	Proficient User																																
English																																									
Urdu																																									
Social skills and competences	Good at making new friends, adjustment with new teammates. By participating in a different debating contests/conferences and interaction with, I have the experience to interact with different people.																																								
Organisational skills and competences	Leadership abilities and the ability to work under stresses and strict deadlines. I realize not to get irritated if provoked by peers and sub ordinates. Working as graduate and undergraduate advisor and leader of debating societies at university, college and school level, I have the experience to manage and coordinate people with different interests and conflicting work manners and timings.																																								
Technical skills and competences	Being the focus of my research and teaching, I have good understanding of concepts related to Cyber Security, HCI, IoT, Smart Logistics, Pattern Recognition, Automatic Speech Recognition, Artificial Intelligence, Digital Image and Signal Processing, Web Technologies, Operating System, Remote Sensing, computer architecture and Project Management. Courses designed: Cyber Security, HCI, Professional Practices, AI, DSP, Adv. OS, Adv. Computer Architecture, IoT																																								
Computer skills and competences	I am good at; Adobe Audition, Joomla, Contiki, Cooja, Matlab, PHP, Programming in C and C++, MS Office and MS Project, LaTeX, Electronics Workbench, Verilog Modelsim, HTK, NS2 and LMS.																																								
Distinctions	- Selected in All Pakistan and visited Scotland for Research Exposure Tour as outstanding researcher, sponsored by Higher Education Commission (HEC), Pakistan and British Council. President Alumni Association, DCSE, UET Peshawar for second consecutive year - HEC Approved PhD Supervisor - PhD Scholar at National Centre of Cyber Security, UET Peshawar. - PhD Scholar at Pak France PERIDOT Research Program, UET, Peshawar - Lead Investigator in the Secured IoT Devices Lab DCSE, UET Peshawar since Oct 2018. - Lead Investigator at Cyber Security Centre, Prince Mohammad Bin Fahd University, Saudi Arabia Joint Research Program titled "Cyber Secured Framework for Control and Monitoring of IoT Devices", UET, Peshawar since Oct 2022. - Invited talk at International workshop in University of Malakand, GIKI and Agriculture University - Organized, as Stage secretary and published 8 papers in ICTAPP'23 (international conference) - Coordinator CS/IT Post-graduate programs, FMCS The University of Agriculture Peshawar. - Member Board of Study for ICS/IT, FMCS The University of Agriculture Peshawar. - Member QEC & Accreditation Committee, ICS/IT, The University of Agriculture Peshawar. - Member Curriculum Development & Supervisory Committee for Web Development BS(CS/IT) - Focal Person HEC for Microsoft IT Academy & Certified MS Office Specialist in Word 2013 - Produced 30 MS Scholars in which 6 are gold medallists & 4 PhD scholars under supervision - Supervised more than 50projects in BS CS/IT, in web development, Visual Computing and AI. Merit scholarship in Phd, M.Sc and B.Sc from HEC and UET Peshawar. - Best Debater and Compere at School, College, University and All Pakistan level (English). - Developer & Designer of 1st official online Ideas Bank in Pakistan for Directorate of Science and Technology (DoST) - Principal Investigator (PI) of two NGIRI-funded Final Year Projects in Web Development - PI of the DGST-funded Undergraduate Research Support Program project titled "Using Lightweight Deep Learning Models for Real-Time Object Detection on Drones" (2025–2026) - Classification of Remotely Sensed Data through ENVI 5.0, Development of dynamic websites in JOOMLA, PHP & MYSQL, Multiprocessor Environment in Embedded C and verilog																																								
Projects																																									

- [1] A. Khan, **A. W. Abbas**, et al. (2025). Classification of real and forged signature using vgg-16 algorithm. *Spectrum of Engineering Sciences*, 3(7), 1729–1745.
- [2] M. A. A. Khan, **A. W. Abbas**, et al, "End-to-End Speaker-Independent ASR for Pashto: Resource Development and System Implementation," *Journal of Engineering & Applied Sciences(JEAS)*, vol. 44, pp 37-49, December, 2025.
- [3] N. Riaz, **A. W. Abbas**, K. Saeed, et al, "IoT-SIWM: IoT Enabled Smart Irrigation System Based on Water Meter Using Mathematical Models," *JEAS*, vol. 43, pp. 27–35, 2025.
- [4] **A. W. Abbas**, S. N. K. Marwat, A. Al Fuqaha, G. Ben Brahim, S. Ahmed, and W. U. Khan, "Mathematical Modelling of ANP for Trust Based IoT Device Categorization in Secured Smart Logistics," *Journal of Network and Systems Management*, vol. 33, no. 3, article 69, Jun. 2025. doi: 10.1007/s10922-025-09941-0. (**Springer, IF $\approx$ 2.6**)
- [5] **A. W. Abbas**, W. U. Khan, H. Nauman, et al, "Enhancing OCR: A Novel Segmentation Approach for Pashto Text Images into Characters," *JEAS*, vol. 43, pp. 54–64, 2024.
- [6] **A. W. Abbas**, W. U. Khan, S. N. K. Marwat, S. Ahmed, K. Saeed, and N. ul Arfeen, "Image Compression Exploration Using Discrete Wavelets Transform Families and Level," *International Journal of Information Science & Technology (IJIST)*, vol. 6, no. 2, pp. 366–379, Apr. 2024.
- [7] S. Zahir, **A. W. Abbas**, et al, "Vision Sensor Assisted Fire Detection in IoT Environment Using ConvNext," *Journal of Artificial Intelligence and Systems*, vol. 5, no. 1, pp. 23–35, 2023.
- [8] F. Ali, S. Khan, **A. W. Abbas**, et al., "A Two-Tier Framework Based on GoogLeNet and YOLOv3 Models for Tumor Detection in MRI," *Computers, Materials & Continua*, vol. 72, no. 1, pp. 73–92, 2022. doi: 10.32604/cmc.2022.024103. (**Tech Science Press IF $\approx$ 1.6**)
- [9] R. Ullah, **A. W. Abbas**, M. Ullah, R. U. Khan, I. U. Khan, N. Aslam, and S. S. Aljameel, "EEWMP: An IoT-Based Energy-Efficient Water Management Platform for Smart Irrigation," *Scientific Programming*, vol. 2021, Article ID 5536884, 9 pages. (**WILEY, IF = 0.963**)
- [10] **A. W. Abbas** and S. N. K. Marwat, "Scalable Emulated Framework for IoT Devices in Smart Logistics Based Cyber-Physical Systems: Bonded Coverage and Connectivity Analysis," *IEEE Access*, vol. 8, pp. 138350–138372, 2020. doi: 10.1109/ACCESS.2020.3012458. (**IEEE, IF = 3.7**)
- [11] M. Sajjad, K. Saeed, T. Hussain, **A. W. Abbas**, I. Khalil, I. Ali, and N. Gul, "Impact of Jelly Fish Attack on the Performance of DSR Routing Protocol in MANETs," *Journal of Mechanics of Continua and Mathematical Sciences (JMCMS)*, vol. 14, no. 4, pp. 132–140, Jul.–Aug. 2019.
- [12] **A. W. Abbas**, K. Saeed, S. N. K. Marwat, S. A. R. Abid, M. A. A. Khan, and S. Shah, "Evaluation of Optimal Edge Detection Operator for Localization of License Plate of Vehicles with Different Orientation," *JMCMS*, vol. 14, no. 3, pp. 445–453, May–Jun. 2019.
- [13] S. Shah, K. Saeed, M. Mustafa, R. Rafiullah, M. Mohibullah, M. Daud, and **A. W. Abbas**, "Minimization of Information Asymmetry Interference Using Partially Overlapping Channel Allocation in Wireless Mesh Networks," *International Journal of Advanced Computer Science and Applications (IJACSA)*, vol. 9, no. 8, Aug. 2018. (SAI)
- [14] S. Shah, **A. W. Abbas**, H. Hussain, and H. Israr, "Minimizing Information Asymmetry Interference in Multi-Radio Multi-Channel Wireless Mesh Networks," *Kuwait Journal of Science*, vol. 44, no. 3, pp. 30–39, 2017. (**ScienceDirect, IF $\approx$ 1.1**)
- [15] A. Khan, K. Saeed, H. Khan, **A. W. Abbas**, and S. Shah, "Impact of Sleeping Nodes on the Performance of Proactive and Reactive Routing Protocols in Mobile Ad Hoc Networks," *Science International*, vol. 29, no. 2, pp. 447–452, 2017.
- [16] **A. W. Abbas**, N. NasruminAllah, N. Ahmad, A. Ali, and S. Abid, "K-Means and ISODATA Clustering Algorithms for Landcover Classification Using Remote Sensing," *Sindh Univ. Res. J. (Sci. Ser.)*, vol. 48, no. 2, pp. 315–318, Jun. 2016.
- [17] Z. Ali, **A. W. Abbas**, Thasleema, et al, "Database Development and Automatic Speech Recognition of Isolated Pashto Spoken Digits Using MFCC and K-NN," *International Journal of Speech Technology (Springer)*, Jan. 2015. doi: 10.1007/s10772-014-9267-z. (Springer)
- [18] S. A. R. Abid, N. Ahmad, M. A. A. Khan, **A. W. Abbas**, et al, "Formant Based Pashto Digits and Numbers Synthesizer," *Sindh Univ. Res. J. (Sci. Ser.)*, vol. 46, no. 1, pp. 47–52, Mar. 2014.

Conference Papers IEEE

- [1] **A. W. Abbas**, S.N.K. Marwat, S. Ahmed, A. Hafeez, K. Ullah, and I. U. Khan, "Proposing Model for Security of IoT Devices in Smart Logistics: A Review," in *Proc. 3rd Int. Conf. Computing, Mathematics and Engineering Technologies (iCoMET)*, Sukkur, Pakistan, 2020, pp. 1–6, (**IEEE**)
- [2] K. Saeed, W. Khalil, S. Ahmed, **A. W. Abbas**, and M. N. K. Khattak, "Analysis of Different Packet Size Optimization Techniques for TWSNs," in *Proc. 2nd Int. Conf. Computing, Mathematics and Engineering Technologies (iCoMET)*, Sukkur, Pakistan, Jan. 2019, pp. 1–6. (**IEEE**).
- [3] S. Islam, **A. W. Abbas**, A. Ahmad, S. Shah, and K. Saeed, "Parameter Investigation of Artificial Neural Network and Support Vector Machine for Image Classification," in *Proc. 14th Int. Bhurban Conf. Applied Sciences and Technology (IBCAST)*, Islamabad, Pakistan, 2017, pp. 795–798. (**IEEE**)
- [4] Tanzeela, **A. W. Abbas**, Z. Ali, and B. U. Din, "Analyzing the Impact of MFCC and LDA for the Development of Isolated Pashto Spoken Numbers ASR," presented at the 12th Int. Conf. Frontiers of Information Technology (FIT), Islamabad, Pakistan, Dec. 17–19, 2014 (**IEEE**)

- [5] A. Ahmad, Noorullah, **A. W. Abbas**, "PHP+MySQL Based Online Examination System with Power Failure Handling and Dropbox Capability," in Proc. Int. Workshop on Trustworthy Computing, co-located with the 7th Int. Conf. Software Security and Reliability (SERE), Washington, D.C., USA, Jun. 18–20, 2013 (**IEEE**)
- [6] **A. W. Abbas**, N. Ahmad, and H. Ali, "Pashto Spoken Digits Database for Automatic Speech Recognition Research," in Proc. 18th Int. Conf. Automation & Computing, Loughborough Univ., Leicestershire, UK, Sep. 8, 2012, pp. 363–366. Pakistan, 2020, pp. 1–4. (**IEEE**).

Refereed Conference Publications

- [1] S. A., Ullah, **A. W., Abbas**, M., Ullah, et al. "Unveiling the Power of Deep Learning: A Trailblazing Review on Different Techniques used for Medical Image Segmentation Analysis". in *Proc. 1st Int. Conf. on Computing Technologies, Tools and Applications (ICTAPP)*, 2023, pp. 52.
- [2] A. H. Khan, W. U. Khan, I. Hamid, **A. W. Abbas**, et al, "Analysis and Implementation of Honeypot Framework for Enhancing Network Security," in *Proc. ICTAPP*, 23, pp. 13.
- [3] S. Zahir, **A. W. Abbas**, et al, "Facial Detection and Recognition using Efficient Features for Enhanced Security Systems," in *Proc. ICTAPP*, 23, pp. 40.
- [4] M. Ali, A. Khan, M. N. Atta, **A. W. Abbas**, A. Khan, and M. Asim, "Analysis of Images Pre-Processing Techniques for Ophthalmic," in *Proc. (ICTAPP)*, 2023, pp. 47.
- [5] N. Gul, **A. W. Abbas**, A. Khan, and L. Rukh, "Disease Detection in Black Sesame Leaf Using Digital Image Processing," in *Proc. (ICTAPP)*, 2023, pp. 46.
- [6] K. Lodhi, **A. W. Abbas**, K. Ali, M. T. Butt, and M. Ullah, "Perils from Climate Change Mapped using Image Processing: Segmentation and Enhancement," in *Proc. (ICTAPP)*, 2023, pp. 47.
- [7] M. T. Butt, **A. W. Abbas**, K. Lodhi, K. Ali, and M. Ullah, "Analysis of Landsat Images through Color Bands and Band Combinations using MATLAB," in *Proc. (ICTAPP)*, 2023, pp. 49.
- [8] A. Shah, **A. W. Abbas**, S. Zeb, E. Muhammad, and S. Abbas, "Speech Synthesis Based Image Captioning," in *Proc. (ICTAPP)*, 2023, pp. 51.

Book chapters

- [1] M. Ullah, **A. W. Abbas**, L. Rukh, K. Ullah, and M. I. Haq, "State of the Art in Distributed Privacy-Preserving Protocols in Private Web Search," in *Protecting User Privacy in Web Search Utilization*, R. Khan, Ed., IGI Global, pp. 1–25, 2023. doi: 10.4018/978-1-6684-6914-9.ch001.

REVIEWER

- Act as an external examiner for Master by Research (MRES) thesis of Ashane Fernando, titled "Enhancing Resilience Against DDoS Attacks in Software Defined Networking", November 2024, School of Computing, Faculty of Science and Engineering **Macquarie University**, Sydney, NSW 2109, Australia
- Act as an external examiner for MRES thesis of Eu Jin Foo, titled "iTransact: Isolation Kernel-Based Transaction Classification", May 2025, School of Computing, Faculty of Science and Engineering **Macquarie University**, Sydney, NSW 2109, Australia
- Journal of Engineering & Applied Sciences, UET Peshawar
- 1st International Conference on Computing Technologies, Tools and Applications, ICTAPP23

Certifications, Workshops, Conferences and Events Organized and Attended

- **DCSE Placement Fair 2025**, by DCSE Alumni Association, University of Engineering and Technology Peshawar, Peshawar, Pakistan, 30 May 2025
- Study Tour of CUST Islamabad Students to UET Peshawar, by Secured IoT Devices Lab, University of Engineering and Technology Peshawar, Peshawar, Pakistan, 23 May 2025
- Webinar on Applications of Blockchain by Dr. Mubashir Husain Rehmani from Munster Technological University, Ireland, by Secured IoT Devices Lab, University of Engineering and Technology Peshawar, Peshawar, Pakistan, 6 Jan. 2025
- 1st and 2nd International Conference on Computing Technologies, Tools and Applications (ICTAPP), 2023 and 2024, hosted by, ICS/IT, The University of Agriculture Peshawar.
- 1st International Conference on Emerging Trends in Sustainable Business and Management (ICETSBM-2023), hosted by, IBMS, The University of Agriculture Peshawar, Pakistan
- Session Chair, IEEE 19th International Conference on Emerging Technologies (ICET 2024), GIKI, November 2024.
- Session Chair, 2nd International Conference on Innovations in Computing Technologies and Information Sciences, ICTIS'25 April 2025 & ICTAPP 24.
- Member, Curriculum Development Committee (Freelancing & Game Development), UET Peshawar – July 2025
- Cyber Security Fundamentals, University of London (via Coursera), Completed: June 18, 2025, Verified Certificate: <https://coursera.org/verify/6T3UQUEU4RMZL>
- Introduction to Image Processing, MathWorks, completed: Aug 17, 2025, Verified Certificate <https://coursera.org/verify/NQHR7HM7HCSQ>
- IoT for Everyone, HEC, Pakistan, completed: Jul 21, 2025, verified certificate <https://coursera.org/verify/VXW94U10NKX3>
- Cyber Security in IoT – Developed and delivered for MS(CS)/MS(IT) programs, focusing on securing Internet of Things environments.

Courses Designed

Conference Papers

- Quantum Cyber Security – Designed for PhD (CS) scholars, exploring quantum computing applications in future cybersecurity systems.

MS Research Students Supervised

S.No.	Student Name	Thesis Title	Year
1	Babar Ali Khan	Prediction of Cardiac Disorder using Electrocardiogram with LSTM Dual Attention	2025
2	Muhammad Huzaifa	AI-Empowered Intelligent System for Disease Diagnosis and Personalized Precautionary Recommendation	2025
3	Rowaid Ikram	ARIMA-Based-LSTM Model with Attention Mechanism for Load Forecasting in Smart Grids	2025
4	Amir Khan	Classification of Real and Forged Signature Using VGG-16 Algorithm	2024
5	Musadaq Habib	Classification of Artistic Images Authenticity Using Siamese Neural Network	2023
6	Rehan Nawaz	Bug Prediction in Software Development Using K-Fold Based Random Forest Algorithm	2022
7	Akhtar Mulk	Multi-Class Classification for the Identification of Covid19 in Xray Images Using Convolutional Neural Network (CNN)	2022
8	Atta Ullah	Sentiment Classification of Pashto Roman Using Multi-Layer Perceptron	2021
9	Rafiullah	Energy Efficient Water Management Platform (EEWMP) For Precise Irrigation by using IoT	2021
10	Kanwal Lodhi	Identification and Classification of Deforestation in the Northern Pakistan using ANN	2020
11	Maliha Tahir Butt	Performance Analysis of Supervised and Unsupervised Classification for LU/LC Area Via Remote Sensing	2020
12	Kashif Ali	Need-Based Optimal Model for Selection of Virtualization Technologies in Data Centers	2020
13	Nauman Riaz	An Efficient Approach for Smart Irrigation System Based on Water Meter	2020
14	Sadia Khan	Automatic Detection of Tumor in MRI Images Using Convolutional Neural Network	2020
15	M. Farooq Hussain	Detection and Classification of Snow-Covered Region Using Parallelepiped and Support Vector Machine (Gold Medalist)	2019
16	Irshad Ahmad	Business Process Re-Engineering Algorithm for Bills Cancellation Process of Enterprise Resource Planning	2019
17	Shakir Shahab	Design and Implementation of An Effective Algorithm for Enterprise Resource Planning Based Systems	2019
18	Salman Haider	Simulating Blood Vessel Network for Intelligent Analysis Based on Skeletonization and Graph Representation	2018
19	Nida Gul	Real Time Isolated Automatic Speech Recognition System for Limited Pashto Numbers (0-1) series (Gold Medalist)	2018
20	Ehsan Ullah	Performance Evaluation of K-Nearest Neighbor, Decision Tree and Naïve Bayesian Technique base on Student Data	2018
21	Fazeen Akhtar	Identification and verification of Fingerprint Image Critical Frequency Band Using Discrete Wavelet Transform	2017
22	Burhan Uddin	Development of Automatic Speech Recognition System for Pashto Isolated Spoken Numbers using DWT and LDA	2017
23	Inayat Ullah	A Novel Water Cycle Based Back Propagation Algorithm with Magnified Activation Function for Data Classification	2017
24	Junaid Bukhari	A Novel Hybrid Metaheuristic Based Functional Link Neural Network Model for Medical Data Classification (Gold Medalist)	2017
25	Abi Zar	A Novel Trust Based Optimization Model to Enhance the Location Privacy in VANETS	2017
26	Huda Nauman	Segmentation of Pashto Text into Characters	2017
27	Shahab-ul-Islam	Performance Analysis of Artificial Neural Network and Support Vector Machine for Image Classification (Gold Medalist)	2016
28	Chahat Nisar	Analyzing the Impact of Proposed Algorithm on Vehicle Number Plate	2016
29	Zakir Ali	Database Development and Automatic Speech Recognition of Isolated Pashto Spoken Numbers using MFCC and K-NN (Gold Medalist)	2015
30	Tanzeela	Automatic Speech Recognition of Isolated Pashto Numbers by using MFCC and LDA (Gold Medalist)	2015

Hobbies & Interests:

- Gardening – I enjoy cultivating plants and creating a calming green space, which serves as both a hobby and a stress-reliever.
- Shopping and Dining Out with Family – I enjoy discovering new things, from local markets to curated stores, often making it a fun outing with my family and friends.
- Spending Quality Time with Children – Engaging in playful and meaningful activities with my kids keeps me inspired, energized, and connected to what matters most.

Referees Contact Information:

- Dr. Safdar Nawaz Khan Marwat,
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- Dr. Nasir Ahmad
Associate Professor,
Department of Computer Systems Engineering, UET Peshawar, Pakistan
00923349234797 / 00353899462862
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