Dr. Muhammad Nadeem Majeed
Associate Professor,
Punjab University College of Information Technology (PUCIT).
University of Punjab Lahore

HEC Approved Supervisor

Present Address: Punjab University College of Information Technology, The University of Punjab, Shahrahe Quaid-e-Azam, Allama Iqbal Campus (Old Campus) Lahore, Pakistan.

Permanent Add: Ch. Abdul Majeed, General Manager (R). 23-B PASSCO housing Society, Canal Road, Lahore, Pakistan.

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Objective:

Possess high Teaching Skills in the field of Information Technology. Ability to adopt any environment with very short learning curve. Versatile team player with excellent communication skills (with fluency in English Urdu) and can work in a group as well as individually in a challenging Environment.

Summary:

♦ **Nineteen years** of extensive teaching and administrative experience in Computer Science and Engineering institutes.

♦ Currently Four PhD and Two MS student are under my supervision.

♦ Strong Administration and Management skills in the field of Information technology.

♦ Good knowledge of Teaching methodologies and student psychology.

♦ Active member of research project "Measurement and Analysis of the Global Grid and Internet End-to-End Performance (MAGGIE)" collaborative research with the Stanford Linear Accelerator Center (SLAC) USA and NUST-SEECS.

♦ Active member of Research project of Network Performance Monitoring for PERN (PETWORK).

Education:

♦ **Ph.D (Computer Engineering)** from University of Engineering and Technology Taxila. PhD Topic "**Delay and Packet loss based optimized vertical and horizontal handoff Algorithms in Vehicle ad-hoc network**", 2015.

♦ **MS in Computer Engineering** from University of Engineering and Technology Taxila, 2008.

- **Masters in Computer Science**, Hamdard University Karachi, Pakistan, 1999-2001
- **Cisco Certified Network Associate** (CCNA) from **Cisco** Systems Inc. **USA**.
- **Juniper Networks Certified Internet Associate** (JNCIA) Juniper Networks inc. USA.

Administrative Experience

- **Member Departmental Doctoral Programme Committee,** Punjab University College of Information Technology, The University of Punjab. (2020 ~ Present)
- **Member Board of Studies,** Punjab University College of Information Technology, The University of Punjab. (2020 ~ Present)
- **Director Post Graduate Studies,** Software Engineering Department UET, Taxila. (2014 ~ August 2020)
- **Director IT,** University of Engineering and Technology Taxila. (2009~2011)
- **Deputy Team Leader,** of Development Team for Development of On-Line Admission system for University of Engineering and Technology Taxila. (2013 ~2016)
- **Member Admission Core committee,** University of Engineering and Technology Taxila. (2011 ~ August 2020)
- **Member Affiliation committee,** University of Engineering and Technology Taxila. (2015 ~ August 2020)
- **Member Open house & Job Fair Central committee,** University of Engineering and Technology Taxila. (2011 ~ August 2020)
- **Resident Tutor & Mess In-charge,** Hostel University of Engineering and Technology Taxila. (2009 ~ August 2020)
- **Member departmental Purchase committee,** Software Engineering Department, University of Engineering and Technology Taxila. (2012 ~ August 2020)
- **Member Board of Undergraduate Studies,** Software Engineering Department, University of Engineering and Technology Taxila. (2013 ~ August 2020)
- **Member Board of Studies,** Department of Software Engineering., University of Gujrat, Gujrat. (2015 ~ Present)

Professional Teaching Experience:

Around Nineteen years of teaching experience at graduate/Post, graduate level at
- **University of The Punjab, Lahore**
- **University of Engineering and Technology Taxila.**
- **NUST School of Electrical Engineering and Computer Science. Islamabad.**

- **University of Arid Agriculture Rawalpindi.**
- **Mohi-Ud-Din Islamic University Sialkot Campus.**

During this period, I taught the following courses.

- Operating Systems Concepts
- Advance computer Networks
- Information System & Security
- Data Communication and Computer Networks
- Object Oriented Programming
- Software Engineering
- Software Project Management
- Software Requirement Engineering
- Wireless communication
- Linux/Window Administration
- Web Design & Development
- Programming Fundamentals
- Introduction to Computers

- **September 2020 to Present**

University of The Punjab, Lahore.

Working as **Associate professor in Punjab University College of Information Technology,** my primary Responsibilities include

- Teaching undergraduate and graduate level classes.
- Supervision of undergraduate Final year Project and MS/PhD Research Projects.

- **January 2009 to August 2020**

University of Engineering and Technology Taxila.

Worked as **Assistant professor, Software Engineering Department,** my primary Responsibilities include

- Teaching undergraduate and graduate level classes.
- Director post graduate studies.
- Supervision of undergraduate Final year Project and MS/PhD Research Projects.

Worked as **Network Administrator/ Director IT (January 2009 to July 2011)** my primary Responsibilities include

- Design of policy of future IT procurement and decision making of IT Setup to cater for increase in demand of IT related services in the University.
- My responsibilities include management of highly professional IT Personnel who are involved in network management, hardware procurement and hiring of new staff.

- Network Design, Implementation, Administration of 2500+ nodes Network on LAN and WAN.
- Recently Designed and deployed campus wide wireless Hotspot of 1 KM Radius on 802.11 b,g its management and extension.
- Monitoring and Documentation of Network infrastructure.
- Email Server Administration using Microsoft Exchange 2003 and Kerio Mail Server.

February 2008 to January 2009

NUST School of Electrical Engineering and Computer Science.

Worked as **Lecturer** /**Network Administrator** my primary Responsibilities include

- Teaching Course of CCNA under CISCO Local Academy program.
- Training workshop of Linux Administration for Nokia Siemens Networks.
- Project Management and Network administrator of research project "Measurement and Analysis of the Global Grid and Internet End-to-End Performance (MAGGIE)" collaborative research with the Stanford Linear Accelerator Center (SLAC) USA and NUST-SEECS.
- Management and configuration of Network/ Servers of Research project of network performance monitoring for PERN (PETWORK).

October 2002 to January 2008

University Institute of Information Technology, UAAR.

Worked as **Lecturer** my primary Responsibilities include
- Teaching of graduate/Post graduate classes
- Supervision and management of student's development and research projects.
- Managing time table and faculty
- Conducting and arranging seminars and open houses.
- Conducting short courses of Network and programming.

February 2001 to September 2002

Mohi-Ud-Din Islamic University, Sialkot Campus.

Worked as **Lecturer** my primary Responsibilities include
- Teaching of graduate/Post graduate classes
- Conducting Short courses of web design and development.
- Develop library automation system for the university.

Certifications and Trainings:

- One month Faculty Training at LUMS, under **ICT Centric University Excellence Programme: "Faculty Development Programme on Data Structures, and Object Oriented Programming"** by Higher education commission & National ICT R&D Fund, Islamabad 2006.
- **"5 days Training of Microsoft Office Specialist on Microsoft Office 2013"** held at HEC, Regional Centre Lahore 2017.
- "**3 Days Training on SharePoint 2013/SQL**" under Microsoft Consultancy under HEC.
- Training of **SUSE Linux Enterprise Server (SLES) 10** at NUST-SEECS, 2008.
- **Juniper Networks Certified Internet Associate** (JNCIA) Juniper Networks inc. USA, 2008.
- **"Cisco Certified Network Associate" (CCNA)** from Cisco Systems Inc. **USA, 2004**.
- Three month Training of "**Cisco Certified Network Associates"** from Corvit Systems Pakistan at Lahore.
- Three month Training of **"Linux Operating System"** from Corvit Systems Lahore.
- Participated in **"Linux Training"** conducted by Pakistan Software Export Board -Open Source Resource Centre **(PSEB-OSRC).**
- Participated in Training program on **"Apache Web Server"** conducted by Pakistan Software Export Board -Open Source Resource Centre **(PSEB-OSRC).**

Workshops and Seminars:

- Participated in webinar "**Innovation & Entrepreneurship**" held at Allama Iqbal Open University, Islamabad. (03 February 2021)
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- Participated in "**International Symposium on Technology Entrepreneurship and Incubation**" at HEC, Islamabad.
- Participation in Symposium on "**Re-Designing Engineering Education in Pakistan**" organized by University of Engineering and Technology, Taxila.
- Participation in one day training on "**Outcome base Education**" (OBE) in organized by University of Engineering and Technology, Taxila.
- Conduct a one day Training "**How to write and publish your research work**" organized by Software Engineering Department, University of Engineering and Technology, Taxila.
- Participated in 3rd international workshop on **"Research in Computing"** at COMSATS Institute of Information Technology wah cantt as speaker.
- Conduct a two days' Workshop in UIIT, Arid Agriculture University Rawalpindi, on **Linux Administration as professional trainer**.

- Conduct a three days Training of "**Project management professional** (PMP) at COMSATS Attock campus, as professional trainer.
- Conduct a one day "**Training workshop of basic web development**" at Federal Urdu University Islamabad.

Research Publications:

[1] *Muhammad Waqar, Hassan Dawood, Hussain Dawood, Nadeem Majeed, Ameen Banjar, Riad Alharbey, "An Efficient SMOTE-Based Deep Learning Model for Heart Attack Prediction", Scientific Programming, vol. 2021, Article ID 6621622, 12 pages, 2021. https://doi.org/10.1155/2021/6621622 (Impact factor 0.963)*

[2] *A. Mushtaq, M. N. Majeed, F. Aadil, M. F. Khan and S. Lim (2021), "An intelligent cluster optimization algorithm for smart body area networks," Computers, Materials & Continua, vol. 67, no.3, pp. 3795–3814, 2021. https://www.techscience.com/cmc/v67n3/41617 (Impact factor 4.89)*

[3] *Nazir, Faria & Muhammad Majeed, Nadeem & Ghazanfar, Mustansar ali & Maqsood, Muazzam. (2021). An Arabic Mispronunciation Detection System Based on the Frequency of Mistakes for Asian Speakers. Mehran University Research Journal of Engineering and Technology, Vol. 40, No. 1, 00 - 00, April 2021, p-ISSN: 0254-7821, e-ISSN: 2413-7219, DOI: 10.22581/muet1982.2102.xx (HEC Recognize)*

[4] *Nazir, Faria & Muhammad Majeed, Nadeem & Ghazanfar, Mustansar ali & Maqsood, Muazzam. (2019). Mispronunciation Detection using Deep Convolutional Neural Network Features and Transfer learning-based Model for Arabic Phonemes. IEEE Access. PP. 1-1. 10.1109/ACCESS.2019.2912648. (Impact factor 4.098)*

[5] *Muhammad Waqar, Nadeem Majeed, Hassan Dawood, Ali Daud & Naif Radi Aljohani (2019): An adaptive doctor-recommender system, Behaviour & Information Technology, DOI: 10.1080/0144929X.2019.1625441 (Impact factor 1.429)*

[6] *Dawood, Hussain, Sidra Shabbir, Hassan Dawood, Nadeem Majeed, Ahmad Raza, and Rubab Mehboob. "Sparsely encoded distinctive visual features for object recognition." Journal of Electronic Imaging 27, no. 6 (2018): 063035. (SCI, IF= 0.780)*

[7] *Shabbir, Sidra & Majeed, Nadeem & Dawood, Hassan & Dawood, Hussain & Xiu, Bingxin. (2018). Integrating the Local Patches of Weber Orientation with Sparse Distribution Method for Object Recognition. Arabian Journal for Science and Engineering. 10.1007/s13369-018-3612-5. (Impact factor 1.092)*

[8] ***Ensemble-classifiers-assisted detection of cerebral micro-bleeds in brain MRI,*** *Tayyab Ateeq, Muhammad Nadeem Majeed, Syed Muhammad Anwar, Muazzam Maqsood, Zahoor-ur Rehman, Jong Weon Lee, Khan Muhammad, Shuihua Wang, Sung Wook Baik, Irfan Mehmood, Computers & Electrical Engineering, Volume 69, 2018, Pages 768-781 ,ISSN 0045-7906,* https://doi.org/10.1016/j.compeleceng.2018.02.021*. (Impact factor 1.747)*

[9] ***Multi-class Alzheimer's disease classification using image and clinical features,*** *Tooba Altaf, Syed Muhammad Anwar, Nadia Gul, Muhammad Nadeem Majeed, Muhammad Majid, Biomedical Signal Processing and Control, Volume 43, 2018,Pages 64-74, ISSN 1746-8094. (Impact factor 2.783)*

[10] ***A Location Based Delay and Packet Loss Optimized Communication Mechanism involving Handoffs in Vehicular Ad Hoc Network***, *M. Nadeem Majeed, M. Zafrullah, Awais. Azam. Technical Journal, University of Engineering and Technology (UET) Taxila, Pakistan Vol. 22 No. II-2017 (HEC Recognize)*

[11] *N. Bibi, M. N. Majeed, H. Dawood and P. Guo,* ***Automatic Parking Space Detection System*** *2017 2nd International Conference on Multimedia and Image Processing (ICMIP), Wuhan, 2017, pp. 11-15. doi: 10.1109/ICMIP.2017.4.*
http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=8221062&isnumber=8221051

[12] ***Optimization of the operational parameters in a submerged membrane bioreactor using Box Behnken Response Surface Methodology: Membrane fouling control and effluent quality.*** *Asif, Muhammad Bilal & Habib, Rasikh & Iftekhar, Sidra & Khan, Zahiruddin & Majeed, Nadeem. (2017). Desalination and water treatment. 82. 26–38. 10.5004/dwt.2017.20998. (Impact factor 1.173)*

[13] ***Removal of Random-Valued Impulse Noise by Using Texton***, *Munsif Iqbal, Hassan Dawood, M. Nadeem Majeed. Technical Journal, University of Engineering and Technology (UET) Taxila, Pakistan Vol. 22 No. II-2017 (HEC Recognize)*

[14] ***CACONET: Ant Colony Optimization (ACO) Based Clustering Algorithm for VANET.*** *Farhan Aadil , Khalid Bashir Bajwa, Salabat Khan, Nadeem Majeed Chaudary, Adeel Akram (2016) PLoS ONE 11(5): e0154080. doi:10.1371/journal.pone.0154080 (Impact Factor 2.806)*

[15] ***A Joint Port and Statistical Analysis Based Technique to Detect Encrypted VoIP Traffic,*** *Suneel Munir, Nadeem Majeed, Salaser Babu , Irfan Bari, Jackson Harry, Zahid Ali*

Masood. *International Journal of Computer Science and Information Security (IJCSIS), Vol. 14, No. 2, February 2016 (ISI index)*

[16] ***Improved Scalable Recommender System,*** *S. Ishtiaq, N. Majeed, M. Maqsood and A. Javed, The Nucleus 53, No. 3 (2016) 200-207 (HEC Recognize)*

[17] ***Working Environment and Software Configuration Management Assimilation using Traceability Enhancement Technique,*** *H Iqbal, A Javed, MN Majeed - Nucleus, 2015 (HEC Recognize)*

[18] ***Chemically Enhanced Primary Treatment Of Textile Effluent Using Alum Sludge And Chitosan, ,*** *Muhammad Bilal Asif, Nadeem Majeed, Sidra Iftekhar, Rasikh Habib, Sadia Fida, Shamas Tabraiz, Desalination and Water Treatment (2015), DOI: 10.1080/19443994.2015.1015448. (Impact factor 1.173)*

[19] ***Multi-Site Software Development and Its Challenges in Requirements Engineering Using Goal Based Approach,*** *Misbah Iqbal, Nadeem Majeed, Fatima Zohra. International Journal of Knowledge, Innovation and Entrepreneurship, Volume 3 No. 1, 2015, pp. 52—65*

[20] ***Vehicular Adhoc Networks History And Future Development Arenas*** *, International Journal of Information Technology and Electrical Engineering (ISSN:2306-708X), Volume 2, issue 2, 2013 on pages 25-29, Muhammad Nadeem Majeed, Dr. Shahbaz Pervez Chattha, Dr. Adeel Akram Dr. Mohammad Zafrullah*

[21] ***Comparative Analysis of AODV and DSDV Performance in Vanets using NS-2***, *International Journal of Image, Graphics and Signal Processing (IJIGSP), Anam Mustaqeem, Nadeem Majeed ,Muazzam Maqsood, PP.41-46, Pub. Date: 2013-6-1, DOI: 10.5815/ijigsp.2013.07.06*

[22] ***Vehicle Sharing System for Android using Manual and Automated Route Tracking***, *International Journal of Computer Applications Volume 65 - Number 23, Year of Publication: 2013, Muhammad Usman Malik, Nadeem Majeed, Kamal Nasir Khan*

[23] ***Virtual Learner 2. 0: A Technique to Evaluate the Importance of Web 2. 0 based e-Learning Application***, *International Journal of Computer Applications, Volume 64 - Number 4 , Year of Publication: 2013 , Kanwal Yousaf, Muhammad Nadeem Majeed, Adeel Akram, 10.5120/10620-4248*

[24] ***A Novel Algorithm for Railway Tracks Detection using Satellite Imagery***, *International Journal of Computer Applications, Volume 64 - Number 14, Year of Publication: 2013, Muazzam Maqsood, Ali Javed, Nadeem Majeed 10.5120/10700-4661*

[25] *Performance Evaluation of I.T Project Management in Developing Countries,* International Journal of Information Technology and Computer Science(IJITCS), *Nadeem Majeed, Khurram Ali Shah, Khurram Ashfaq Qazi, Muazzam Maqsood, ISSN: 2074-9007 (Print), ISSN: 2074-9015 (Online), Publisher: MECS, IJITCS Vol. 5, No. 4, March 2013, Full Text (PDF, 229KB), PP.68-75*

[26] *Role of Requirement Management as a CMMI Process Area in Requirement Engineering published in "International Journal of Computer Applications" Volume 51 - Number 19, Year of Publication: 2012*

[27] *Agile Development and Testing by Analyzing Extreme Programming Variances published in "International Journal of Information and Education Technology (IJIET)" IJIET 2012 Vol.2(2): 83-87 ISSN: 2010-3689 , DOI: 10.7763/IJIET.2012.V2.87*

[28] *Quality Category Matrix to ensure the quality of software product International Conference on Software and Information Engineering (ICS IE 2012), May 12 - 13, 2012, Bangkok, Thailand (http://www.ijcce.org/abstract/46-Z30007.htm) Published in International Journal of Computer and Communication Engineering (IJCCE) IJCCE 2012 Vol.1(2): 175-178 ISSN: 2010-3743, DOI: 10.7763/IJCCE.2012.V1.46*

[29] *Resource Management in Cellular Networks. Akram A., Pervez S., Majeed M.N., Zafrullah M. (2007) In: Elleithy K., Sobh T., Mahmood A., Iskander M., Karim M. (eds) Advances in Computer, Information, and Systems Sciences, and Engineering. Springer, Dordrecht.* pp 89-92, DOI: https://doi.org/10.1007/1-4020-5261-8_15

[30] *Paramount technique to Reduce jitter in High Performance Circuits accepted in the "4th CIIT Workshop on Research in Computing CWRC Fall November 10, 2006 at COMSATS Institute of Information Technology, Attock. Pakistan.*

[31] *Risk Analysis and Management in IT industry of Pakistan accepted and published in the COMSATS International Conference on Management (CICM) January 2, 3 2008 at COMSATS Institute of Information Technology, LAHORE. Pakistan.*

[32] *An Efficient Framework based on Emotional Intelligence to Improve Team Performance in Developing Countries in International Journal of Modern Education and Computer Science (IJMECS). ISSN: 2075-0161 (Print), ISSN: 2075-017X (Online) DOI: 10.5815/ijmecs.*

[33] *Performing Inquisitive Study of PM Responsibilities and Skills Desirable for Project Progress in International Journal of Economics and Management Engineering(IJEME), ISSN:2225-742X(Print), ISSN:2226-7344(Online)*

Research Funding Projects

Title of Research Project	Investigator as	Starting Date	Ending Date	Organization Name	Amount Rs.
Vehicle Tracking and Securing using Android Handset	Principal Investigator	30-06-16	30-11-16	University of Engineering and Technology Taxila.	72000
Recommend-er System for Mobile Based Discounted Shopping	Co-Principal Investigator	30-06-16	30-11-16	University of Engineering and Technology Taxila.	12500
Human Detection and Location Tagging from Live stream Videos in un-Reachable areas using quad-copter	Principal Investigator	30-06-16	30-11-16	University of Engineering and Technology Taxila.	380000
HNH Global Chauffeuring	Principal Investigator	06-07-15	30-06-16	ICT R&D	50000
QoS Support for Multimedia Transmission over Cognitive Radio Networks (CRNs)	Principal Investigator	08-06-12	08-02-13	University of Engineering and Technology Taxila.	69000
Distribution of Audio/Video Content in Wireless Network Using Adaptive spectrum aware radios	Principal Investigator	08-06-12	08-02-13	University of Engineering and Technology Taxila.	86900
Web 2.0 Based E-Learning Using Social Media	Principal Investigator	08-06-12	08-02-13	University of Engineering and Technology Taxila.	101500

Postgraduate Supervision:

Degree	Year	Status	Title
MS	2011	Completed	Distribution of Audio/Video Contents in Wireless Networks using Adaptive Spectrum aware Radios
MS	2011	Completed	An Efficient Routing Protocol for Multimedia Transmission in Vehicular Adhoc Networks
MS	2011	Completed	Web 2.0 Based Enhanced Course Management and e-Learning System
MS	2011	Completed	Real Time Text Retrieval from Live Video Streaming
MS	2011	Completed	Analysis of Network Attacks using Queuing Theory
MS	2011	Completed	Live Stream Based Automatic Parking Space Detection System
MS	2011	Completed	Effective Web Application Vulnerability Assessment, Penetration Testing & Remediation Framework
MS	2012	Completed	Hand Gesture Detection and Recognition for Human Computer Interaction
MS	2012	Completed	Recognition of Handwritten Script using Artificial Neural Network

MS	2012	Completed	Gamification of Software Engineering Education by MDA Framework
MS	2012	Completed	Efficient Scheduling and Performance Tuning in Dual Stack Transition Mechanism for IPv4/ IPv6 Based Networks
MS	2013	Completed	Performance Recording and Analysis on Windows 7, 8 and evaluation Microsoft EDGE as a most efficient browser for automated SQA testing
MS	2013	Completed	Performance Analysis of Topology and Position Based Routing Protocols in VANET
MS	2013	Completed	Risk Management of Cloud Computing
MS	2014	Completed	Android Mobile Games IAP Data Security
MS	2014	Completed	Recommender System for Community Based Free Education
MS	2014	Completed	An Intelligent Doctor Recommender System
MS	2014	Completed	An Efficient Watershed Algorithm for Brain Tumor Detection
MS	2015	Completed	An Efficient Alzheimer's Detection Algorithm from Brain MR Images using Machine Learning Techniques
MS	2015	Completed	An Efficient Hybrid Approach for Detection of Microbleeds
MS	2015	Completed	Power and Energy Efficient Scheme for Wireless Senor Network
MS	2016	Completed	Object Recognition in RGB Space Using Sparse Representation
MS	2017	Under process	Optimized Clustering Algorithm for WBAN to WBAN Communication
MS	2017	Under process	Energy Optimization of Bio Sensors
Ph.D	2015	Completed	Mispronunciation Detection using Deep Convolutional Neural Network Features and Transfer learning-based Model for Arabic Phonemes
Ph.D	2016	Under process	Formally Modelled Secure Energy Efficient Protocol Against Routing Attacks in Wireless Sensor Network.
Ph.D	2017	Under process	Recommender System in Smart Environment for Activity Monitoring
Ph.D	2017	Under process	Kernel Mapping recommender

Undergraduate Projects supervision:

During my Teaching career, I supervised around 80+ projects of under graduates'
e.g.

- ♦ Recognition of Handwritten using Artificial Neural Networks
- ♦ Real Time Text Retrieval from Live Video Streaming
- ♦ Operation Zarb-e-Azb 3D FPS Game
- ♦ E-Recruitment System
- ♦ Islam Portal
- ♦ Automated Property Management System empowered with Android and Kiosk
- ♦ iOnRoad-Travel Assistant
- ♦ Wild Birds (Android base Game)
- ♦ Easyship.com
- ♦ Incident Watcher
- ♦ HNH Global Chauffeuring

- Web 2.0 based e-learning using social media
- Mobile based GPS linked information system
- Lecture slide extractor from Lecture video
- Socio travel
- Student Management System
- Bug Tracking and Monitoring Application
- Social Shopping Web Store
- Expert virtual mobile
- Data Synchronizer
- Advance swift communication system
- Hostel Management System
- Network monitor for LAN
- Active Packet Sniffing protocol
- Intrusion Detection System using Mobile Agents
- Wide Area Network Inventory system
- Network Management System
- Online GIS of Pakistan
- Identify the Person Through IRIS
- Web Mall (Pak Web Store)
- Pakistan Television World News Archival system
- Inventory and Accounts Management System
- Network monitoring and Controlling
- Grade your self

Reference:

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