**Nadeem Sarwar (Senior Member IEEE)**

[**https://orcid.org/0000-0001-8681-6382**](https://orcid.org/0000-0001-8681-6382)

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**Father’s Name:**

Ghulam Sarwar

**Address:** House No. 374, Block R3, Johar Town, Lahore, Pakistan

**Cell No:** +92 3458704071

**E-mail:** Nadeem\_srwr@yahoo.com

Nsarwar.bulc@bahria.edu.pk

**CNIC No**:

31202-5807295-1

**Passport No**:

BB5992953

**Date of Birth**:

8th September 1987

**Marital Status**:

Married

**Spouse Name**:

Dr. Asma Irshad, PhD

**Religion:**

Islam

**Nationality**:

Pakistani

**All necessary documents will be provided on demand**

**Research Interests:**

IoT, Cloud computing, Wireless Sensor Networks, Cyber security, Image Processing, Computer Vision, Natural Language Processing, Machine learning, Data Science, Biological Computing, Software Engineering, Artificial Intelligence, Digital healthcare, Precision in Agriculture, Robotic

**QUALIFICATION:**

**PhD (Computer Science) Session: 2016-2023**

**Institute:** **The Islamia University of Bahawalpur**

**Majors: Computer Science**

**CGPA Thesis submitted**

**Thesis:** SMART HOMES IoT ENVIRONMENT ANOAMALY DETECTION USING MACHINE LEARNING

**MS (Computer Science) Session: 2013-2015**

**Institute:** **The Islamia University of Bahawalpur (IUB)**

**Majors: Computer Science**

**CGPA: 3.54 / 4.00**

**Thesis:** Generating EXPRESS Data Modelling Using Natural Language

(Semantic Business Vocabulary Rules).

**MCS (Computer Science) Session: 2009-2011**

**Institute: The Islamia University of Bahawalpur (IUB)**

**Majors: Computer Science**

**CGPA: 3.26/4**

**Project:** Website on “Online Medicine Distribution Company”

**BSc Session: 2007-2009**

**Institute: The Islamia University of Bahawalpur (IUB)**

**Majors: (Computer, Economics)**

|  |  |
| --- | --- |
| **MS (CS)** | **PhD (CS)** |
| Software Design & Architecture | Special Topics in Modeling and Simulations |
| Advance Operating System | Advances in Intelligent Systems |
| Advance Computer Networks | Research Trends in Artificial Intelligence |
| Advance Algorithms | Research Trends in Data Mining |
| Theory of Computation | Research Trends in Computer Science |
| Knowledge Management | Advance Research Methods in Computer |
| Network Security |  |
| Wireless Networks |  |

**Courses Taken:**

**Experience (Academic/Professional/Research):**

* **Assistant Professor** (Computer Science) from 1st July 2020 to date at Department of Computer Science, Bahria University, Lahore Campus, Lahore, Pakistan
* **Senior Lecturer** (Computer Science) from 1st August 2018 to 30th June 2020 at Department of Computer Science, Bahria University, Lahore Campus, Lahore, Pakistan.
* **Assistant Professor** (Computer Science) from 25th September 2017 to 31th July, 2018 at Department of Computer Science & IT, University of Gujrat, Sialkot Campus, Sialkot, Pakistan.
* **Lecturer** (Computer Science) from 26th October 2015 to 24th September, 2017 at Department of Computer Science & IT, University of Gujrat, Sialkot Campus, Sialkot, Pakistan.

**Experience (Industry):**

* Worked in Software industry as a Senior Software Developer from Nov 2011 to Oct 2015.

**Memberships:**

**IEEE Societies**

* IEEE Professional Membership
* IEEE Membership Milestone (94397531)
* IEEE Computational Intelligence Society Membership
* IEEE Computer Society Membership
* IEEE Pre-University STEM Community
* IEEE Systems Council
* IEEE Systems, Man, and Cybernetics Society Membership

**Working as** **Editorial Board Member**

* Security and Communication Networks **(Cite score: 2.6)**
* *IET Software* **IF: 1.8**
* *PLOS ONE*  **IF: 3.7**
* Applied Computational Intelligence and Soft Computing (**impact factor 2.8**)
* CMC- Computers, Materials & Continua **IF: 3.1**
* International Journal of Telemedicine and Applications **IF: 4.4**
* Journal of Healthcare Engineering
* milestone transactions on medical Technometrics

* [Mathematics and Computer Science](http://www.mathcomputer.org/editorialboard?editorialboardtypeid=5) (Science Publishing Group)
* [SCIREA journal of Computer](http://www.scirea.org/journal/EditorialBoard?JournalID=52000#3234)
* Program committee (PC) member of 43rd International Conference on Software Engineering held on 25 - 28 May 2021, Madrid, Spain

**Working as Reviewer for**

* ACM Journal on Computing and Cultural Heritage **IF: 2.04**
* IEEE Access Journal **IF: 3.74**
* European Alliance for Innovation (EAI) Organization.
* Computers and Electronics in Agriculture (Elsevier) **IF: 3.85**
* Journal of Computers, Materials & Continua **IF: 3.86**
* Computer Systems Science and Engineering **IF: 4.39**
* Cluster Computing (Springer nature) **IF: 2.1**
* EAI Endorsed Transactions on Cloud System
* EAI Endorsed Transactions on Energy Web
* EAI Scalable Information Systems
* EAI Endorsed Transactions on Pervasive Health and Technology
* EAI Endorsed Transactions on Context-aware Systems and Applications
* Human-centric Computing and Information Sciences **IF: 6.5**
* IT Professional **(Impact factor: 3.9)**
* Journal of Super Computing **IF: 3.2**
* International Journal of Intelligent Systems **IF: 8.99**
* Journal of Cyber Security
* IET Information Security **IF: 0.8**
* Journal of Intelligent Automation and Soft Computing
* Security and Communication Networks (Hindwai) **IF: 1.84**
* Journal of Healthcare Engineering in Agriculture (Hindwai) **IF: 3.82**

* [PROCEEDINGS OF THE PAKISTAN ACADEMY OF SCIENCES](http://www.paspk.org/proceedings/) (Pakistan Science Foundation)

* [Indonesian Journal of Electrical Engineering and Computer Science](https://www.iaescore.com/journals/index.php/IJEECS)
* IEEE 6th International Conference on Innovative Computing Technology, Dublin, Ireland
* 2nd International Conference on Computing, IoT and Data Analytics ([ICCIDA-2023](https://iccida.net/)) Springer. The conference is organized by Universidad de Castilla - La Mancha, Spain and Istinye University, Turkey, on July 20-21, 2023.
* 2023 IEEE Symposium on Industrial Electronics & Applications ([ISIEA 2023](https://www.isiea.asia/)) which will be held as a hybrid conference in Maya Hotel, Kuala Lumpur, Malaysia, held on 15th - 16th July 2023
* IEEE Symposium on Computers & Informatics (ISCI 2023) held on 14-15 October 2023

**Other Managerial Roles**

* **Undergraduate Class Advisor** from Oct 2015 to Jul 2018 at University of Gujrat, Sialkot, Pakistan.
* **Supervisor Final Year Projects** from Oct 2015 to Jul 2018 at University of Gujrat, Sialkot, Pakistan.
* **Member Disciplinary Committee Coordinator** from 30 Oct 2015 to Jul 2018 at University of Gujrat, Sialkot Campus, Sialkot, Pakistan.
* **Member Board of Subject Experts** from Oct 2015 to Jul 2018 at University of Gujrat, Sialkot, Pakistan.
* **Undergraduate Class Advisor** from Aug 2018 to date at, Bahria University, Lahore, Pakistan.
* **Supervisor Final Year Projects** from Sep 2018 to date at, Bahria University, Lahore, Pakistan.
* **Dress Code Coordinator** from Aug 2018 to date at, Bahria University, Lahore Campus, Lahore, Pakistan.
* **Member (FYP Internal evaluation Committee)** from Oct 2019 to date at, Bahria University, Lahore Campus, Lahore, Pakistan.
* **President Bahria Strategic Plans (2016-2025) Committee** from March, 2019 to date at, Bahria University, Lahore Campus, Lahore, Pakistan.
* **President (External Research Funding Committee)** from Sep 2018 to date at, Bahria University, Lahore Campus, Lahore, Pakistan.
* **Member (External Cooperation Research Group Committee)** from Oct 2019 to date at, Bahria University, Lahore Campus, Lahore, Pakistan.
* **Member (Undergraduate admission Committee)** from Oct 2019 to date at, Bahria University, Lahore Campus, Lahore, Pakistan.
* **Member (Post-graduate admission Committee)** from Sep 2022 to date at, Bahria University, Lahore Campus, Lahore, Pakistan.
* **Mentor (Undergraduate students)** from Feb 2022 to date at, Bahria University, Lahore, Pakistan.

**Teaching:**

|  |  |
| --- | --- |
| **Semester** | **Subjects** |
| **Spring 2015** | Theory of Automata |
| Artificial Intelligence |
| Advance Computer Networks |
| **Fall 2016** | Compiler Construction |
| **Spring 2016** | Human Computer Interaction |
| Desktop Based Operating System |
| **Fall 2017** | Software Engineering (CS-321) |
| **Spring 2017** | Object Oriented Analysis and Design (CS-325) |
| **Fall 2018** | Software Engineering (CS-321) |
| **Spring 2018** | Object Oriented Analysis and Design (CS-325) |
| **Fall 2018** | Compiler Construction (CSC-323) |
| **Spring 2019** | Compiler Construction (CSC-323) |
| Natural Language Processing (CSC-441) |
| Object Oriented Analysis and Design (SEN-320) |
| Advance Database Administration (IT-327) |
| **Summer 2019** | Object Oriented Programming (CSC-220) |
| **Fall 2019** | Compiler Construction (CSC-323) |
| System & Network Administration (ITC-312) |
| Probability and Statistics (GSC-122) |
| **Spring 2020** | Compiler Construction (CSC-323) |
| Data Structure and Algorithm (CSC-221) |
| **Fall 2020** | Compiler Construction (CSC-323) |
| Software Project Management (SEN-410) |
| Management Information System **Part time** |
| **Spring 2021** | Compiler Construction (CSC-323) |
| Theory of Automata |
| Human Computer Interaction |
| Professional Practice **Part time** |
| **Fall 2021** | Compiler Construction (CSC-323) |
| Introduction to Cloud Computing (CSC-410) |
| Cloud Computing (CSC-781) in MSCS **Part time** |
| **Spring 2022** | Compiler Construction (CSC-323) |
| Introduction to Cloud Computing (CSC-410) |
| Introduction to Data Science |
| Theory of Automata in MSCS **Part time** |
| **Fall 2022** | Compiler Construction (CSC-323) |
| Introduction to Cloud Computing (CSC-410) |
| **Spring 2023** | Compiler Construction (CSC-323) |
| Software Project Management (SEN-410) |
| **Fall 2023** | Compiler Construction (CSC-323) |
|  | Introduction to Cloud Computing (CSC-410) |

**Final Year Projects Supervised (Completed /Ongoing):**

|  |  |
| --- | --- |
| **2017**  **2018**  **2019**  **2020**  **2021**  **2022** | 1. **AIM Mart**  (Web based Application) 2. **Online Blood Finder** (Web based Application) 3. **Doctors Search** (Android Application) 4. **Voice Chat Bot** (Desktop Application using Java) 5. **WatchBot** (Java based Application) 6. **Aurdino Base Vehicle Accident Detection** (Hardware based Application) 7. **Review Based Opinion Mining and Ranking** (Web based Application) 8. **Software Requirement Verification tool** (Web based Application) 9. **UML Diagram Generations Using Text.** (Desktop Application using Java) 10. **Cost Estimation Tool for medium scale projects using COCOMO** 11. **Move Together** 12. **E-Challan generation with on spot payment facility** (Android Application) 13. **Education app for children with Autism** (Android Application) 14. **Speech Therapy For Stutters** (Android Application) 15. **Automated Diagram Generator Using Natural Language Processing** (Desktop Application using NLP) 16. **Automated ERD Diagram Generator Using Natural Language Processing** (Desktop Application using NLP) 17. **Instant Messaging Tool for Cyberbullying** (Android Application) 18. **Hafiz Quran Academy** (Web based Application) 19. **Online Makeup shopping store** (Web based Application) 20. **Web Based Application The Artsy** (Web based Application) 21. **Investigation of Non Functional Requirements of Web App** (Thesis) 22. **Pharmacy Hub** (Android Application) 23. **Poly Clinic** (Android Application) 24. **Paramount Publishing Company-Journal handler** (Web based Application) 25. **Learners Arena** (Web based Application) 26. **Software Requirement classification using NLP techniques** (Web based Application) 27. **Cassava leaf disease detection and classification using Deep learning approaches** (Android Application) |

**Thesis co-supervision (): Master level**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr. #** | **Name of Student** | **Thesis title** | **Status** |
| 1 | Intakhab Alam | Comparative analysis of AZ model with other software development models using six-pointed star methodology and statistical analysis | **Completed** |
| 2 | Tayyaba Rashid | Telemedicine by using IoT enabled in Rural Areas | **Completed** |
| 3 | Shazmina Gulla | Smart eNose Food Waste Management System | **Completed** |
| 4 | Umer khan | Covid-19 Data Analysis using Compotational approaches. | **Completed** |
| 5 | Hafiz Muhammad Ashja Khan | Trusted Simple Network Management Protocol for Integrity Evaluation in Distributed Environment | **On-going** |
| 6 | Muhammad Hamza Waseem | Secure Data Storage on Cloud Platform using Encryption Standard | **On-going** |

**Journal Publications:**

1. **AUTOMATED GENERATION OF EXPRESS-G MODELS USING NLP**. Sindh University Research Journal-SURJ (Science Series), 48(1).(pp. 05-12) ISSN: 1813-1743 HEC recognized (X Category)
2. **“****Automated Object-Role Model Generation”** (IJCSIS) International Journal of Computer Science and Information Security, Vol. 14, No. 9, September 2016 (pp. 301-308). ISSN 1947 5500
3. **“Designing a Model for improving CPU Scheduling by using Machine Learning”** in (IJCSIS) International Journal of Computer Science and Information Security, Vol. 14, No. 10, October 2016 (pp. 201-204). ISSN 1947 5500
4. **“****Wireless Mesh Network: IEEE802.11s”** in (IJCSIS) International Journal of Computer Science and Information Security, Vol. 14, No. 12, December, 2016 (pp. 803-809). ISSN 1947 5500
5. **“****Generating Express Data Models from SBVR”** Proceedings of the Pakistan Academy of Sciences: A. Physical and Computational Sciences 53 (4): 381–389 (2016). ISSN: 2518-4245 HEC recognized (X Category)
6. **“New Workflow Model Approach for Test Cases Generation”**. in the Bahria University journal of Information and Communication Technologies (BUJICT) Volume - 9, Issue - II (DEC 2016). ISSN : 1999-4974 HEC recognized (Y Category)
7. **“**[**SocioRank\*: A community and role detection method in social networks**](https://doi.org/10.1016/j.compeleceng.2019.03.010)**”**. Published in Computers & Electrical Engineering (Elsevier) Volume - 76, Issue – June (2019). (pp. 122-132). ISSN: 0045-7906 **IF: 2.662** <https://doi.org/10.1016/j.compeleceng.2019.03.010>
8. [**A proactive model on innovative biomedical applications of gold nanoparticles**,](https://link.springer.com/article/10.1007/s13204-019-01165-4)Published in Applied Nanoscience Volume 09 Issue Sep, 2019. (P: 01-13) **ISSN** 2190-5509 **IF 3.198**, DOI: <https://doi.org/10.1007/s13204-019-01165-4>
9. [**Comprehensive facts on dynamic antimicrobial properties of polysaccharides and biomolecules-silver nanoparticle conjugate**](https://doi.org/10.1016/j.ijbiomac.2019.12.089)Published in International Journal of Biological Macromolecules, Dec, 2019. **ISSN**: 0141-8130 **IF 5.162** [**https://doi.org/10.1016/j.ijbiomac.2019.12.089**](https://doi.org/10.1016/j.ijbiomac.2019.12.089)
10. [**Silver nano-particles: synthesis andfcharacterization byfusing glucans extracted fromfPleurotus ostreatus**](https://link.springer.com/article/10.1007%2Fs13204-019-01103-4)” Published in Applied Nanoscience, July, 2019 (Page: 1-10) **ISSN** 2190-5509 **IF 3.198**, DOI: <https://doi.org/10.1007/s13204-019-01103-4>
11. In vitro Identification of CACNA1H in the 9th Exon of Childhood Absence Epilepsy (CAE) Patients Using BioEdit and ClustalW2” published in BioScientific Review (BSR) 2021;3(2):54–65 ISSN(P): 2663-4198 DOI: <https://doi.org/10.32350/BSR.0302.05> Published: 31 August 2021 https://journals.umt.edu.pk/index.php/BSR/article/view/1557
12. [***An Intelligent Fire Warning Application Using IoT and an Adaptive Neuro-Fuzzy Inference System***](https://doi.org/10.3390/s19143150). Published in Sensors 2019, 19, 3150 Pages (1-18) ISSN 1424-8220 **IF. 3.031**
13. **“An IoT-based Intelligent Wound Monitoring System”***, Published in IEEE Access, Vol 7 issue 1, 10 Sep, 2019 ISSN: 2169-3536* ***IF: 4.098*** *https://doi.org/10.1109/ACCESS.2019.2940622s*
14. **An Intelligent Data Analysis for Recommendation Systems using Machine Learning,** Published in Scientific Programming, Sep, 2019 (P: 01-30) ISSN: 1058-9244 **IF: 1.289**
15. [**Modified Decision Tree Technique for Ransomware Detection at Runtime through API Calls**](https://doi.org/10.1155/2020/8845833)**,** Published in Scientific Programming, Aug, 2020 (P: 01-30) **ISSN**: 1058-9244 **IF: 1.33** [https://doi.org/10.1155/2020/8845833](https://doi.org/10.1155/2020/8845833" \t "_blank)
16. [**IoT health-Care: Design Smart and Cost-Effective Sleep Quality Monitoring System**](https://doi.org/10.1155/2020/8882378) accepted in the journal, Journal of Sensors. **IF: 1.595** <https://doi.org/10.1155/2020/8882378>
17. [**Convolutional Neural Network Based Classification of App Reviews**](https://doi.org/10.1109/ACCESS.2020.3029634)**,** Published in IEEE Access, Vol 7 issue 1, 10 Sep, 2019 **ISSN**: 2169-3536 **IF: 3.75** **https://doi.org/10.1109/ACCESS.2020.3029634**

1. **[COVID-19: A Colossal Threat to Fundamental Rights of Humans](http://art.eurekajournals.com/index.php/IJHSSIT/article/download/264/300)**, Published in International Journal of Humanities & Social Science: Insights & Transformations Vol. 5, Issue 2 – 2020 ISSN: 2581-3587 Page 1 to 7 Link: http://art.eurekajournals.com/index.php/IJHSSIT/article/view/26
2. “[**Integration of 5G and Block-chain Technologies in Smart Telemedicine using IoT**](https://doi.org/10.1155/2021/8814364)” in the journal of “Journal of Healthcare Engineering”. ISSN (Print) 2040-2295 , **Impact factor: 1.803**, 03 March 2021
3. **“**[**Prediction of breast cancer using machine learning techniques**](https://journals.umt.edu.pk/index.php/BSR/article/view/2102)” in BioScientific Review, Vol 4 No 1 (2022) March 2022
4. **“**[**Statistical Analysis of Software Development Models by Six-Pointed Star Framework**](https://doi.org/10.1371/journal.pone.0264420)**”** published in PLOSONE journal, 1st April 2022. PLoS ONE 17(4): e0264420. <https://doi.org/10.1371/journal.pone.0264420> **Impact Factor: 3.24**
5. [**Development of a Tumor Diagnosis Application for Medical Practitioners using Transfer Learning**](https://journals.umt.edu.pk/index.php/BSR/article/view/2480)**”** published in BioScientific Review (BSR) 2022;4(2): ISSN(P): 2663-4198 Vol 4 No 2 (2022) June 2022.
6. [**Deep Insight into IoT-Enabled Agriculture and Network Protocols**](https://doi.org/10.1155/2022/5617903)," published in Wireless Communications and Mobile Computing, vol. 2022, 16 pages, 2022. <https://doi.org/10.1155/2022/5617903>. **Impact factor: 2.18**
7. [**Improved Hybrid Deep Collaborative Filtering Approach for True Recommendations**](https://dx.doi.org/10.32604/cmc.2023.032856)", published in CMC-computers materials & continua vol. 74, no.3, pp. 5301–5317, 2023 <https://doi.org/10.32604/cmc.2023.032856> **Impact factor: 3.86**
8. "[TOPIC MODELING USING DOCUMENT PIVOT APPROACH WITH FIXED WINDOW](https://tianjindaxuexuebao.com/details.php?id=DOI:10.17605/OSF.IO/S6N58)" published in Journal of Tianjin University Science and Technology Vol: 56 Issue: 02: 2023 dated 10-02-2023 DOI10.17605/OSF.IO/S6N58 ISSN (Online):0493-2137
9. M. Ibrahim, I. S. Bajwa, N. Sarwar, F. Hajjej and H. A. Sakr, "[An Intelligent Hybrid Neural Collaborative Filtering Approach for True Recommendations](https://ieeexplore.ieee.org/document/10163823)," in IEEE Access, vol. 11, pp. 64831-64849, 2023, doi: 10.1109/ACCESS.2023.3289751. **Impact factor: 3.9**
10. [**Isolation of Novel Mutations in BCL-2 gene from normal and diseased dog (Canis famiriaris) and cat (Feline catus)**](https://journals.smarcons.com/index.php/mls/article/view/59) published in MEDICAL AND LIFE SCIENCES [Vol. 1 No. 1 (2022): MLS](https://journals.smarcons.com/index.php/mls/issue/view/9)
11. “[**Recognizing Breast Cancer Using Edge Weighted Texture Features of Histopathology Images**](https://www.techscience.com/cmc/v77n1/54486)” *Computers, Materials & Continua* **2023**, *77*(1), 1081-1101. <https://doi.org/10.32604/cmc.2023.041558> **Impact factor: 3.1**
12. Maryam Munawar, Iram Noreen, Raed S. Alharthi, Nadeem Sarwar, "[Forged Video Detection Using Deep Learning: A SLR](https://www.hindawi.com/journals/acisc/2023/6661192/)", *Applied Computational Intelligence and Soft Computing*, vol. 2023, Article ID 6661192, 21 pages, 2023. https://doi.org/10.1155/2023/6661192 **Impact factor: 2.9**
13. N. Sarwar, I. S. Bajwa, M. Z. Hussain, M. Ibrahim and K. Saleem, "[IoT Network Anomaly Detection in Smart Homes Using Machine Learning](https://ieeexplore.ieee.org/document/10287977)," in IEEE Access, vol. 11, pp. 119462-119480, 2023, doi: 10.1109/ACCESS.2023.3325929. **Impact factor: 3.9**
14. “**Weber Law-based Approach for Multi-Class Image Forgery Detection**” published in CMC-computers materials & continua, Dec, 2023 **Impact factor: 3.1**

**Conference Publications:**

1. **NLP Based Verification of a UML Class Model**. Proceedings of the 6th International Conference on Innovative Computing Technology (INTEC 2016) Dublin, Ireland, (pp. 24-29). **IEEE DOI:** 10.1109/INTECH.2016.7845070 **Electronic ISBN:** 978-1-5090-2000-3
2. **Contrastive Analysis of Bubble & Merge Sort Proposing Hybrid Approach**. Proceedings of the 6th International Conference on Innovative Computing Technology (INTEC 2016) Dublin, Ireland,, (pp. 340-344). **IEEE DOI:** 10.1109/INTECH.2016.7845075 **Electronic ISBN:** 978-1-5090-2000-3
3. **NOSQL Database Generation Using SAT Solver**. Proceedings of the 6th International Conference on Innovative Computing Technology (INTEC 2016) Dublin, Ireland,, (pp. 590-594). **IEEE DOI:** 10.1109/INTECH.2016.7845072 **Electronic ISBN:** 978-1-5090-2000-3
4. **A Hybrid Test Case Model for Medium Scale Web Based Applications**. Proceedings of the 6th International Conference on Innovative Computing Technology (INTEC 2016) Dublin, Ireland, (pp. 595-600). **IEEE DOI:** 10.1109/INTECH.2016.7845115
5. **Efficient Requirement Engineering for Small Scale Project by Using UML**. Proceedings of the 6th International Conference on Innovative Computing Technology (INTEC 2016), Dublin, Ireland, (pp. 625-629). **IEEE** **DOI:**[10.1109/INTECH.2016.7845116](https://doi.org/10.1109/INTECH.2016.7845116)

1. “Repairing Broken Links Using Naive Bayes Classifier” Proceedings of Intelligent Technologies and Applications. INTAP 2018. Communications in Computer and Information Science, vol 932. Springer, Singapore pp 461-472, Springer DOI: <https://doi.org/10.1007/978-981-13-6052-7_40> Online ISBN: 978-981-13-6052-7
2. **“Connection Time for Routing Decisions in Vehicular Delay Tolerant Network”** Proceedings of Intelligent Technologies and Applications. INTAP 2018. Communications in Computer and Information Science, vol 932. Springer, Singapore pp 679-690, **Springer** DOI**:** <https://doi.org/10.1007/978-981-13-6052-7_58> **Online ISBN:** 978-981-13-6052-7
3. **“Microchip with Advance Human Monitoring technique And RFTS”** Proceedings of Intelligent Technologies and Applications. INTAP 2018. Communications in Computer and Information Science, vol 932. Springer, Singapore pp 560-570, **Springer** DOI**:** <https://doi.org/10.1007/978-981-13-6052-7_48> **Online ISBN:** 978-981-13-6052-7

1. **“Plant Irrigation & Recommender** **System–IoT based digital solution for home Garden”** Proceedings of Intelligent Technologies and Applications. INTAP 2018. Communications in Computer and Information Science, vol 932. Springer, Singapore pp 513-525, **Springer** DOI**:** <https://doi.org/10.1007/978-981-13-6052-7_44> **Online ISBN:** 978-981-13-6052-7
2. **“A Graph Theory based Method to Extract Social Structure in the Society”** Proceedings of Intelligent Technologies and Applications. INTAP 2018. Communications in Computer and Information Science, vol 932. Springer, Singapore (pp 437-448) **Springer** DOI: <https://doi.org/10.1007/978-981-13-6052-7_38> **Online ISBN:** 978-981-13-6052-7
3. ***A Security Framework to Protect Edge Supported Software Defined Internet of Things Infrastructure”.*** Proceedings of International Conference on Collaborative Computing: Networking, Applications and Worksharing, August, 2019 (Page: 1-9) Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering book series (LNICST, volume 292) **Springer** DOI: <https://doi.org/10.1007/978-3-030-30146-0_6> **Online ISBN:** 978-3-030-30146-0
4. **A Blockchain-Based Framework for Information Security in Intelligent Transportation Systems.** Published in proceeding of International Springer Conference Intelligent Technologies and Applications. INTAP 2019 <https://doi.org/10.1007/978-981-15-5232-8_6>
5. **A Review of Star schema and Snowflakes Schema,** Published in proceeding of International Springer Conference Intelligent Technologies and Applications. INTAP 2019. <https://doi.org/10.1007/978-981-15-5232-8_12>
6. **A Review of E-Commerce Optimization Techniques,** Published in proceeding of International Springer Conference Intelligent Technologies and Applications. INTAP 2019.
7. **Classification and Prediction Analysis of Diseases and other Datasets using Machine Learning,** Published in proceeding of International Springer Conference Intelligent Technologies and Applications. INTAP 2019. <https://doi.org/10.1007/978-981-15-5232-8_37>
8. **Prediction and Analysis of SUN SHOWER using Machine Learning,** Published in proceeding of International Springer Conference Intelligent Technologies and Applications. INTAP 2019.[**https://doi.org/10.1007/978-981-15-5232-8\_16**](https://doi.org/10.1007/978-981-15-5232-8_16)
9. [**XSHM: Proposed Hybrid Process Modeling Technique from Scrum and XP for PSP and Medium Projects**](https://link.springer.com/chapter/10.1007/978-3-031-19968-4_5) accepted in International conference on Engineering Software for the Modern Challenges (ESMOC2021) organized by Universiti Teknologi Malaysia (UTM), Malaysia on 28 August 2021.
10. [**A Survey on Measurement Based Shadow Fading Model for Vehicular Communications**](https://link.springer.com/chapter/10.1007/978-3-031-19968-4_17) accepted in International conference on Engineering Software for the Modern Challenges (ESMOC2021) organized by Universiti Teknologi Malaysia (UTM), Malaysia on 28 August 2021.
11. [**Analysis of Web Monitoring Servers and Tools for Cloud Computing Services**](https://link.springer.com/chapter/10.1007/978-3-031-19968-4_4) accepted in International conference on Engineering Software for the Modern Challenges (ESMOC2021) organized by Universiti Teknologi Malaysia (UTM), Malaysia on 28 August 2021.
12. "[E-Challan System Implemented in Lahore Using Digital Image Processing,"](https://ieeexplore.ieee.org/document/9692964)2021 International Conference on Innovative Computing (ICIC), 2021, pp. 1-6, doi: 10.1109/ICIC53490.2021.9692964.
13. ["Cloud application importance and challenges: A Systematic Review,"](https://ieeexplore.ieee.org/document/9692995)2021 International Conference on Innovative Computing (ICIC), 2021, pp. 1-6, doi: 10.1109/ICIC53490.2021.9692995.
14. "[Code Vision: Learning Mobile Application,"](https://ieeexplore.ieee.org/document/9692918)2021 International Conference on Innovative Computing (ICIC), 2021, pp. 1-7, doi: 10.1109/ICIC53490.2021.9692918.
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16. Muhammad Zulkifl Hasan, Muhammad Zunnurain Hussain, Nadeem Sarwar, Adeel Ahmad siddiqui, Intakhab Alam and Asma Irshad "[**Data Recovery and Backup management: A Cloud Computing Impact**](https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=10138852)" Published in 2023 IEEE International Conference on Emerging Trends in Engineering, Sciences and Technology (ICES&T)
17. Muhammad Zulkifl Hasan, Muhammad Zunnurain Hussain, Nadeem Sarwar, Ali Moiz Qureshi, Intakhab Alam and Asma Irshad "[**Impact of Cybercrime on Enterprises in Cloud Computing Environment: An overview**](https://ieeexplore.ieee.org/document/10138873?denied=)**"** Published in 2023 IEEE International Conference on Emerging Trends in Engineering, Sciences and Technology (ICES&T)

**Symposiums/Workshops/Conferences/Trainings Attended:**

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| **1997**  **2010**  **2016**  **2016**  **2016**  **2016**  **2016**  **2017**  **2017**  **2018**  **2018**  **2018**  **2018**  **2019**  **2019**  **2019**  **2019**  **2019**  **2019**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2020**  **2022**  **2022**  **2022**  **2022**  **2022**  **2022**  **2022**  **2022**  **2022**  **2022**  **2022**  **2022**  **2022**  **2022**  **2022**  **2022**  **2022**  **2022**  **2022**  **2022**  **2022**  **2022**  **2022**  **2022**  **2022**  **2022**  **2022**  **2022**  **2022**  **2022**  **2022**  **2022** | **Training Camp on “****Punjab Golden Jubilee Rover Scouts Moot Bahawalpur”**  At Government S.E College, Bahawalpur, Pakistan  **Punjab level Workshop on “NGO’s Convention & Training Program”**  At Bahawalpur board auditorium organized by Punjab Social Services Board, Pakistan  **Hands-on Training Workshop on “****Publish Your Research in High Impact Factor Journals”** Held at University of Gujrat, Sialkot Sub Campus, Sialkot, Pakistan  **QEC Training Workshop on “Capacity Building Training Program for Faculty”**  Held at University of Gujrat, Sialkot Sub Campus, Sialkot, Pakistan  **IEEE COMSOC Summer School 2016**  Held at 26th – 29th July, 2016 in Punjab University Lahore and University of Engineering and Technology, Lahore, Pakistan  **IEEE National Workshop on “Robotics and Industrial Automation”**  Held on 24th August, 2016 at University of Management and Technology, Lahore, Pakistan  **6th International Conference on Innovative Computing Technology 2016**  Organized by: The Islamia University, Bahawalpur and Held at Islamabad Marriott Hotel, Islamabad, Pakistan on September 19-21, 2016  **ACMTechXtreme’ 17** Held at University of Gujrat, Sialkot Sub Campus, Sialkot, Pakistan  25-27 January, 2017  **QEC Training Workshop on “Capacity Building Training Program for Faculty”**  Held at University of Gujrat, Sialkot Sub Campus, Sialkot, Pakistan  **Second National Conference on Emerging Trends in Bioinformatics and Biosciences”**  Held at HAZARA UNIVERSITY MANSEHRA, KP, PAKISTAN. AUGUST 09–11 2018  **New** **Faculty Orientation and Training Program (FOTP) and Micro Teaching**  Held at Bahria University, Lahore Campus, Lahore, Pakistan, 03-07 Sep, 2018  **3 Days Training Workshop on “Strategic Time Management”**  Held at Bahria University, Lahore Campus, Lahore, Pakistan, 11-13 Sep, 2018  **1st International Springer Conference Intelligent Technologies and Applications**. Sep, 2019, held at Islamia University, Bahawalpur, Pakistan  **Training on Dressing for success by Mr.Hamid Saeed** Held at Bahria University, Lahore Campus, Lahore, Pakistan, 22 Aug, 2019  2 Days Training on “**Faculty Development Program**” by cdre Naveed Ahmad, Brig Rehan Uddin, Dr Urooj Sadiq Held at Bahria University, Lahore Campus, Lahore, Pakistan, 01-02 Sep, 2019  5 Days Lectures for Faculty Development on “**Hazrat Muhammad PBUH Ideal Teacher**”,  “**Everlasting Message Allama Iqbal**” “**Who is Successful**” and “**Pakistan University Teacher and their Obligations**” Held at Bahria University, Lahore Campus, Lahore, Pakistan, 29 Aug-01 Sep, 2019  **Training on Leadership Development Program** by Director Khalid Mumtaz BUIC Held at Bahria University, Lahore Campus, Lahore, Pakistan, 26-27 ,Aug, 28 Sep, 2019  Workshop and Training on Research Methodologies by Dr Caven S.Mcloughlin USA  Held at Bahria University, Lahore Campus, Lahore, Pakistan, 16 and 19 Sep, 2019  **2nd International Springer Conference Intelligent Technologies and Applications**. Oct, 2019, held at Islamia University, Bahawalpur, Pakistan  **IEEE Virtual Tech Talk: IEEE 802 Networking Standards – Connecting the World** held online at June 17, 2020 sponsored by Huawei Technologies.    Online webinar “**Effectual Entrepreneurship**” held by UMT with collaboration of Asian Institute of Technology, Thailand on 15 June, 2020  International Research conference of SLTC on the topic of “**Innovative Education**” held by Faculty of Business studies, Sri Lanka Technological Campus on17th June, 2020.  Online Webinar "**DevOps for Machine Learning and other Half-Truths: Processes and Tools for the ML Lifecycle**" held by SEMLA 2020 on Jun 17, 2020 Montreal  Online Webinar "**Engineering AI-Enabled Systems with Interdisciplinary Teams**" held by SEMLA 2020 on Jun 18, 2020 Montreal  Online Webinar **"Methodological Blind Spots in Machine Learning Fairness: Lessons from the Philosophy of Science and Computer Science"** held by SEMLA 2020 on Jun 22, 2020 Montreal    Online Webinar **"Software Methodology and Lifecycle In AI"** held by SEMLA 2020 on Jun 23, 2020 Montreal    Online Webinar "**A Hidden, Bot-only Platform to Learn About Trolls and Scammers (tentative)"** held by SEMLA 2020 on Jun 30, 2020 Montreal  Online Webinar “**True Lies: Misinformation, Censorship and the open Internet**” Organized by Internet Society on 30 June, 2020.  Online webinar "**Hitchhiker’s Guide to VMware Cloud – Unpacking VMware Cloud on AWS**" organized by VMware Cloud Foundation held on 07 July 2020.  Online webinar "**How VMware IT Supports a Distributed Workforce with Workspace ONE Webinar**" organized by VMware Cloud Foundation held on 11 July 2020.  Online Webinar on "**Productivity Improvement Through 5S and 5T**" organized by SMEDA Pakistan held on 14 July, 2020  Two days training **"Free Training on Data Science- TechTrunk"** held on Jul 16 & 17, 2020  Online webinar "**From Zero to Hero – Making the Hybrid Cloud Work for You with VMware Cloud Foundation**" organized by VMware Cloud Foundation held on 21 July 2020.  Online webinar **“The Holy Grail of Multi-Clouds: Delivering a New Cloud Infrastructure Stack for Modern Applications”** organized by VMware Cloud Foundation held on 21 July 2020.  Online webinar “**Deep Learning for 3D Computer Vision**” held by National Incubation Center Pakistan with the collaboration of Queen's University, Kingston, Canada on 25 July, 2020  IEEE Virtual Events **"** **Ditching the Traditional College Lecture in Remote Instruction"** Organized by IEEE society held on July 27, 2020  IEEE Virtual Events **"** **Making Labs Effective with Remote Learning"** Organized by IEEE society held on July 28, 2020  IEEE Virtual Events **"** **Managing Remote Student Teams"** Organized by IEEE society held on July 29, 2020  IEEE Virtual Events **"** **Student Assessments for Remote Delivery."** Organized by IEEE society held on July 30, 2020  IEEE Virtual Events **"** **Student and Data Privacy when Offering Remote Instruction."** Organized by IEEE society held on July 31, 2020  IEEE Virtual Events **"Coffee Break: Self-Assessing Your Remote Teaching Methods"** Organized by IEEE society held on July 31, 2020  Online webinar "**Fighting AI-powered Cyberattacks with AI enabled Cyber Defense**" organized by Sangfor Technologies held on Aug 18, 2020.  Online webinar "**HUAWEI Global Intelligent Education Summit**" organized by HUAWEI held on Aug-27-2020.  Online webinar "**Canadian Certification for Teachers Hows and Why to Apply**" organized by Institute of Peace and Diplomatic Studies, Pakistan held on Aug-26-2020.  Online webinar "**IoT Security Foundation Webinar**" organized by IoT Security foundation held on Aug-25-2020.  Online webinar " **NBDP - SMEDA Online Training Program on "Import Export Documentation and Procedure**" organized by SMEDA held on Aug 20, 2020  Online webinar " **Next Generation Firewall Buyers Guide: 5 Selection Criteria to Purchase Your Next NGFW** " organized by Sangfor Technologies held on Aug 25, 2020.  Online webinar "**A Journey Towards Mobile Convergence with VMware and Samsung**" organized by VMware held on Aug-13-2020.  Online webinar "**Maintaining Cyber Security**" organized by SMEDA held on Aug-26-2020.  Online webinar "**Freelancing through Fiverr**" organized by SMEDA held on Aug-19-2020.  Online webinar "**Industrial Safety and Emergency Preparedness**" organized by SMEDA held on Aug-26-2020.  Online webinar "**Production Planning and Control for Auto Sector**" organized by SMEDA held on Aug-20-2020.  Online webinar "**Role of Artificial Intelligence in Environment Monitoring**" organized by Prof. Dr. Faisal Shafait, NUST, Pakistan held on Aug-24-2020.  Online webinar " **IEEE Virtual Tech Talk: IEEE 802 Networking Standards – 2020 Ethernet Bandwidth Assessment**" organized by IEEE held on Aug-05-2020.  Online webinar " **IEEE Virtual Tech Talk: Privacy's Increasing Role in Technology - A View from the IAPP**" organized by IEEE held on Aug-12-2020.  Online webinar " **The Customer Speaks: Learn How Sangfor HCI & VDI Enable Better Healthcare Solutions**" organized by Sangfor Technologies held on Aug-27-2020.  Online webinar " **Masterclass: What is Artificial Intelligence?** " organized by Macquarie University, Australia held on Aug-28-2020.  Online Webinar on “**Building trust in and through the peer review process”** held on September 25th 2020 organized by Cactus Communications  Online Webinar on “**Dry run: Building trust in and through the peer review process”** held on September 24th 2020 organized by Cactus Communications  Online Webinar on “**My peer review story – A live discussion among researchers and reviewers”** held on September 25th 2020 organized by Cactus Communications  Online Webinar on “**Trust and excellence in peer review: How to become an effective peer reviewer”** held on September 24th 2020 organized by Cactus Communications  Online Summit on “**AWS Summit Online ASEAN re:Cap 2020”** Held on September 29th 2020 organized by Amazon Web Services  Online Webinar on **"How to Effectively Detect & Prevent Insider Threats"** Organized by SANGFOR TECHNOLOGIES on September 2, 2020  Online Webinar on “**The Economic Times and upGrad are organizing a learning (virtual) summit”** organized by Economic Times on September 22, 2020  Online Webinar on “**Container: The Future of Application Development”** Organized by SANGFOR TECHNOLOGIES on September 24, 2020  Online IEEE Panel discussion on **"Engineering for the Future: IEEE Panel Discussion"** Topic: **Engineering for the Future: from Undergraduate Study to Professional Development** Organized by IEEE held on September 21-23, 2020  Online Webinar on “**Entrepreneurial opportunities in Pakistan”** Organized by Lincoln Corners Sindh on September 14, 2020  Online virtual Summit **“ETtech Virtual Summit: Accelerating Innovation & Design of Consumer Appliances"** organized by Economic Times on Sep 25, 2020.  Online Webinar on **“Health Innovation By All, For All**” organized by National Incubation Center Pakistan on Sep 18, 2020  **Live Panel Discussion: Unlocking the Black Box of AI** Organized by ETCIO on Sep 8, 2020  Online Webinar on **“Consumer IoT Security Guidance**” organized by IoT Security Foundation  Online Webinar on **"Online Congress: Bulk Fill – Past, Present & Future"** organized by Fabian Langenbach on Sep 16, 2020  Online event: **ProQuest Ebook Central Advanced Training** September 23 and 30, 2020  Online Webinar on **"Digital Media Marketing through Facebook"** Organized by SMEDA raining Department on 10 September, 2020  Online Webinar on **"Process Excellence using Seven QC Tools"** Organized by SMEDA raining Department on 01 September, 2020  Online Webinar on **"Rise of Cloud Data Centre: Shift to decentralized & disaggregated DC infrastructure"** Organized by Economic Times Verticals on Sep 24, 2020  Online Webinar on **"Stop Panicking and Love SSL Decryption with Augmenting Audit"** Organized by SANGFOR TECHNOLOGIES on September 29, 2020  "IEEE Xplore Webinar: **Search Strategies to Optimize Your Research Time"** Organized by IEEE on September 17, 2020  **BootCamp - Azure Cloud Compung by Microso Student Partners Community University of Lahore**" Organized by University of Lahore on September 06-10, 2020  2 Weeks Online IEEE Virtual Congress **"IEEE Region 8 Virtual SYP Congress"** Organized by IEEE on 14 Sep, 2020  Online Webinar on **"Earth observation and geospatial information services for disaster risk reduction – Examples from the HKH"** Organized by ICIMOD on 24 September 2020.  Attended International conference **ECSA 2020, 14th European Conference on Software Architecture** held on 8-10 Sep, 2020 Organized by Department of Information Engineering, Computer Science and Mathematics, University of L'Aquila, Italy  One Day Training on **"ProQuest Ebook Central Advanced Training"** conducted by ProQuest Education in partnership with Higher Education Commission on September 23, 2020**.**  One Day Training on **"HEC Digital Library collections for your next scholarly research "** conducted by ProQuest Education in partnership with Higher Education Commission on October 14, 2020**.**  One Day Training on **"How to utilize ProQuest Journal Dissertation and Varied content types in Teaching and Research"** conducted by ProQuest Education in partnership with Higher Education Commission on October 19, 2020**.**  One Day Training on **"How to utilize ProQuest Ebook Collection in Teaching and Research"** conducted by ProQuest Education in partnership with Higher Education Commission on October 20, 2020**.**  One Day Training on **"Five tips of getting published: Maximize your chance to get your paper accepted in Academic Journals"** conducted by ProQuest Education in partnership with Higher Education Commission on October 27, 2020**.**  [Attended “](https://www.linkedin.com/feed/update/urn:li:activity:6963379413895766016?updateEntityUrn=urn%3Ali%3Afs_updateV2%3A%28urn%3Ali%3Aactivity%3A6963379413895766016%2CFEED_DETAIL%2CEMPTY%2CDEFAULT%2Cfalse%29)**[Reviewer workshop: How to get the most out of being a reviewer of scientific articles”](https://www.linkedin.com/feed/update/urn:li:activity:6963379413895766016?updateEntityUrn=urn%3Ali%3Afs_updateV2%3A%28urn%3Ali%3Aactivity%3A6963379413895766016%2CFEED_DETAIL%2CEMPTY%2CDEFAULT%2Cfalse%29)** [organized by Elsevier Researchers Academy 22 August, 2022](https://www.linkedin.com/feed/update/urn:li:activity:6963379413895766016?updateEntityUrn=urn%3Ali%3Afs_updateV2%3A%28urn%3Ali%3Aactivity%3A6963379413895766016%2CFEED_DETAIL%2CEMPTY%2CDEFAULT%2Cfalse%29)  **"Becoming a peer reviewer"** organized by Elsevier Researchers Academy in Aug 2022.  **"How to promote your research for maximum impact"** organized by Elsevier Researchers Academyin Aug 2022.  **"How to promote yourself and your research as an Early Career Researcher"** organized by Elsevier Researchers Academy in Aug 2022.  **"How to turn your thesis into an article"** organized by Elsevier Researchers Academy in Aug 2022.  **"Research metrics"** organized by Elsevier Researchers Academy in Aug 2022.  **"Reviewer workshop: How to get the most out of being a reviewer of scientific articles"** organized by Elsevier Researchers Academy in Aug 2022.  **"Seven strategies for scientists to communicate their research and create a brand"** organized by Elsevier Researchers Academy in Aug 2022.  **"Automation for a successful future with ZOAU combined with Node.js and Python"** organized by IBM in Jul 2022·  **"Communicative Writing for the ELT Classroom"** organized by British Council in Jul 2022·  **"Conducting Effective research"** organized by Virtual University of Pakistan in Jul 2022·  **"CyberThursday Webinar EP17 - CIAM (Customer Identity Access Management)"** organized by Escom Events in Jul 2022·  **"How To Detect Silent Failures in ML Models"** organized by London Data Science, ML, AI Platform in Jul 2022 ·  **"How to Successfully Communicate with Journal Editors"** organized by Peeref in Jul 2022·  **"The AI and data science clinic: A free workshop for decision makers"** organized by Meetup in Jul 2022·  "Which competences do teacher educators need in supporting teachers online?" organized by British Council in Jul 2022.  "Build a Computer Vision Application With NVIDIA AI on Google Cloud Vertex AI" organized by NVIDIA in Jun 2022.  **"Empowering knowledge on ethical publishing: Mastering the art of identifying predatory, fake and cloned journals"** organized by Elsevier in Jun 2022·  **"IEEE Standards: What, Why & How?"** organized by IEEE in Jun 2022·  **"IEEE Tech Talk Coexistence of IEEE 802.11 and 5G: Wi-Fi™ and other technologies in 5/6 GHz unlicensed spectrum"** organized by IEEE in Jun 2022·  **"Incorporating IEEE Xplore resources into your teaching: A dedicated session for lectures"** organized by IEEE in Jun 2022·  **Symposium on "Emerging Challenges in Academia-Industry Linkages"** organized by Riphah International University in Jun 2022.  **"IEEE New Resources for your technical research"** organized by IEEE in May 2022·  **"IEEE Tech Talk: The Future of Electric Transportation: Targets, Plans and Actions"** organized by IEEE in May 2022·  **"Engineer Spotlight with Christopher Rose Hosted by IEEE TryEngineering and IEEE Awards"** organized by IEEE in April 2022·  **"How Technical Standards Shape My Career"** organized by IEEE in April 2022·  **"IEEE TryEngineering Tuesday: Extended Reality and 5G"** organized by IEEE in April 2022·  **Pathways to Academia: Publishing your Research - Advice from IEEE Editors"** organized by IEEE in April 2022·  **"The Internet of Things: Use Cases, Applications, and Key Elements"** organized by IEEE in April 2022·  **"Agile Recruitment Workshop - Embrace Agile in your Recruitment & Talent Acquisition Function" o**rganized by Prudential Solutions in Mar 2022.  **"Power User in Locating Technical Resources: An in-depth dive with IEEE Xplore"** organized by IEEE in March 2022·  **"UNDERGRADUATE FACULTY TRAINING "STEM" EDUCATION IN PAKISTAN"** organized by Virtual University of Pakistan in Mar 2022. |

**References:**

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