

Curriculum vitae

Dr. Tawseef Ayoub Shaikh

Ph.D. (Computer Engineering) from Aligarh Muslim University, Awarded 2020.

M-Tech (Software Systems), Guru Nanak Dev University (GNDU), Amritsar, 2014, with a CGPA of **8.90/10**.

B-Tech (Computer Science & Engineering) from Islamic University of Science & Technology (IUST), Awantipora, 2011, with a CGPA of **7.06/10**.

GATE, JKSLET, UGC NET **Qualified**

Address: Kadder Kulgam, Jammu & Kashmir.

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Present Address:

Department of Computer Science and Engineering, National Institute of Technology (NIT), Srinagar, Jammu & Kashmir-India, 190006.

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OBJECTIVE

To research, design, and create Artificial Intelligent software products in the industry. I am interested in Machine Learning, Big Data Analytics, Pattern Recognition, Medical Informatics & love to play with the data to draw valuable insights, particularly in the field of Biomedical and Healthcare analytics. Also, I am interested in techniques of Soft Computing, particularly how search engines, and advertising platforms can actively learn from interaction using Machine Learning, Data Mining methods, and Soft Computing.

ACADEMIC PROFILE

- 1. Doctor of Philosophy (Ph.D.)(Awarded):** PhD in Computer Engineering Department, Zakir Hussain College of Engineering & Technology (ZHCET), Aligarh Muslim University, Aligarh-202002, Awarded 2020.
- 2. Awarded Visvesvaraya PhD** fellowship from MeitY (Ministry of Electronics and Information Technology, Media Lab Asia, GoI) from 2015 to 2018.
- 3. Got awarded the fully financed government project from MHRD/ AICTE (NPIU TEQIP-III), Government of India (GoI), with a 9.92 lakhs budget.**

4. Got awarded the fully financed government project from **MHRD/ AICTE (NPIU TEQIP-III)**, Government of India (**GoI**), under a Minor research scheme with a 3 lakhs budget.
5. Got awarded the fully financed government project from **MHRD/ AICTE (NPIU TEQIP-III)**, Government of India (**GoI**), in collaboration with the Indian Institute of Technology (IIT) Indore with a 1.25 lakhs budget.
6. Got awarded the fully financed government project from **MHRD/ AICTE (NPIU TEQIP-III)**, Government of India (**GoI**), in collaboration with the Indian Institute of Technology (IIT) Indore with a 1.25 lakhs budget.
7. Granted fully financed government project from **JK SCIENCE TECHNOLOGY & INNOVATION COUNCIL (JKSTIC)**, Government of Jammu & Kashmir, with a 4.99 lakhs budget.
8. Granted fully financed government project from **JK SCIENCE TECHNOLOGY & INNOVATION COUNCIL (JKSTIC)**, Government of Jammu & Kashmir, with a 3.15 lakhs budget.
9. Selected as **Assistant Professor (AP)** by **National Project Implementation Unit (NPIU)**, under TEQIP-III, MHRD, at **Baba Ghulam Shah Badshah University (BGSBU)**, J&K, from 15-10-2018 till date.

10. **Master of Technology (M. Tech) in Computer Science & Engineering.....89.00%**
Guru Nanak Dev University (GNDU) Amritsar, Punjab India (July 2012 – July 2014).

❖ **Dissertation Title:** Evaluating Data Mining Algorithms in Medical Decision Support Systems (MDSS).

11. **Bachelor of Technology (B. Tech) in Computer Science & Engineering.....70.6%**
Islamic University of Science & Technology (IUST) Awantipora, Pulwama (July 2007 – May 2011).

❖ **Project Title:** E-Governance IUST

12. **Class-XII.....79.6% (Distinction)**
JKBOSE (2006)

13. **Class-X.....79.2% (Distinction)**
JKBOSE (2004)

ACHIEVEMENTS

1. **GATE** qualified in 2015 conducted by IIT Kanpur with 93.07 percentile.
2. **JKSLET** (Jammu & Kashmir State Level Eligibility Test, 2016) qualified, conducted by the University of Kashmir.
3. **UGC NET 2018** qualified, conducted by CBSE (Central Board of Secondary Education).
4. Selected as Assistant Professor by **NPIU**, a Unit of MHRD, Govt. of India under TEQIP-III (October 2018).
5. Received **Visvesvaraya** PhD Research Fellowship from **MeitY** (Ministry of Electronics and Information Technology, Media Lab Asia), Govt. of India (October 2015 - September 2018).
6. The privilege of being honored with Merit cum means fellowship from **MoMA (Ministry of Minority Affairs)**, Government of India (GoI), during four years of B-Tech, from 2007 to 2011.
7. The privilege of being honored with Merit cum means fellowship from **MoMA (Ministry of Minority Affairs)**, Government of India (GoI), during two years of M-Tech from 2012 to 2014.
8. Got awarded the fully financed government project from **MHRD/ AICTE**, Government of India (GoI), with a 9.92 lakhs budget.
9. Got awarded the fully financed government project from **MHRD/ AICTE (NPIU TEQIP-III)**, Government of India (**GoI**), under a Minor research scheme with a 3 lakhs budget.
10. Got awarded the fully financed government project from **MHRD/ AICTE (NPIU TEQIP-III)**, Government of India (**GoI**), in collaboration with the Indian Institute of Technology (IIT) Indore with a 1.25 lakhs budget.
11. Got awarded the fully financed government project from **MHRD/ AICTE (NPIU TEQIP-III)**, Government of India (**GoI**), in collaboration with the Indian Institute of Technology (IIT) Indore with a 1.25 lakhs budget.
12. Granted fully financed government project from **JK SCIENCE TECHNOLOGY & INNOVATION COUNCIL (JKSTIC)**, Government of Jammu & Kashmir, with a 4.99 lakhs budget.
13. Granted fully financed government project from **JK SCIENCE TECHNOLOGY & INNOVATION COUNCIL (JKSTIC)**, Government of Jammu & Kashmir, with a 3.15 lakhs budget.
14. Appointed as Observer for conducting NEET 2019 by NTA, MHRD.
15. Appointed as Observer for conducting NEET 2020 by NTA, MHRD.
16. Appointed as Observer for conducting NEET 2021 by NTA, MHRD.
17. Reviewer for many International Journals and Conferences.

COMPLETED PROJECTS

1. **Visvesvaraya PhD** fellow from MeitY (Ministry of Electronics and Information Technology), Media Lab Asia, GoI (Government of India).

2. Fully financed government project from **MHRD/ AICTE**, Government of India (**GoI**) with 9.92 lakhs budget.
3. Fully financed government project from **MHRD/ AICTE (NPIU TEQIP-III)**, Government of India (**GoI**), under Minor research scheme with 3 lakhs budget.
4. Fully financed government project from **MHRD/ AICTE**, Government of India (**GoI**) and in collaboration with IIT Indore with 1.25 lakhs budget.
5. Fully financed government project from **MHRD/ AICTE**, Government of India (**GoI**) and in collaboration with IIT Indore with 1.25 lakhs budget.

ACADEMIC PROJECTS

1. E-Governance IUST (2011).

WORK EXPERIENCE

1. Lecturer in Super Computer College (NIELIT), Yaripora Kulgam from July 2011 – July 2012.
2. Teaching Assistant at Computer Programming Lab for Undergraduate students, Department of Computer Engineering, Aligarh Muslim University, Aligarh- Oct 2015— Oct 2018.
3. Teaching Assistant: Shared responsibility for labs, tutorials, homework assignments, and grades. Department of Computer Science & Engineering, Guru Nanak Dev University, Amritsar, Punjab- Jul 2013—Jun 2015.
4. Assistant Professor in Computer Science & Engineering Department, Baba Ghulam Shah Badshah (BGSBU), Rajouri, Jammu & Kashmir, from 15-10-2018 till 30-09-2021.
5. Assistant Professor in Computer Science & Engineering Department, Pandit Deendayal Energy University (PDP), Gandhinagar, Gujrat, from 03-01-2022 till 25-08-2022.

SEMINARS/CONFERENCES ATTENDED

1. Attended 4th International Conference on Computing for Sustainable Development, 11th IndiaCOM, 3-4 March 2017 (**IEEE**) at BVICAM, New Delhi, India.
2. Attended **Springer LNNS** Series-2nd International Conference on Communication, Computing, and Networking, organized by Department of Computer Science & Engineering, National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh, India on 29-30, 2018.

3. Attended 4th National Conference on Innovation in Computing and Communication Technology (**NCICCT-2016**), held at Kongunadu College of Engineering and Technology, Tiruchirappalli, Tamil Nadu on 25th March 2016.
4. Attended 13th Session of Jammu & Kashmir Science Congress (**JKSC-18**), organized by the University of Kashmir in collaboration with J&K State Science Technology & Innovation Council, Govt. of J&K, held at University of Kashmir, on 02-04 April 2018.
5. Attended 1st Conference on Software Engineering and Data Sciences (**CoSEDS-2018**), organized Department of Computer Science, North Campus, University of Kashmir, held at the University of Kashmir, on 20-21 June 2018.
6. Attended International Conference on Bioinformatics and Systems Biology (**BSB-2018**), hosted by the **IEEE Computer Society** in collaboration with the **Computer Society of India (CSI)**, and to at IIIT Allahabad, India on October 26-28, 2018.
7. Attended International Conference on Emerging Smart Computing and Informatics (**ESCI**), hosted by the **IEEE Computer Society**, AISSMS Institute of Information Technology, Pune, India. Mar 12-14, 2020.
8. Attended International Conference on Convergence of Smart Technologies Conference (**IC2ST-2021**), hosted by the Aspire Research Foundation, 05, A-Wing, MCCIA Trade Tower, ICC Complex, 403, Senapati Bapat Rd, Pune, India Pune, India, January 9-10, 2021.

JOURNAL PUBLICATIONS

1. **Tawseef Ayoub Shaikh** and Rashid Ali, “Automated atrophy assessment for Alzheimer’s disease diagnosis from brain MRI images”, *Magnetic Resonance Imaging*, Elsevier, Vol: 62, pp: 167-173, 2019 (*SCIE, Scopus*). [**Impact Factor 2.5**]
2. **Tawseef Ayoub Shaikh** and Rashid Ali, “Transfer learning privileged information fuels CAD diagnosis of breast cancer”, *Machine Vision and Applications*, Springer, Vol: 31, Issue: 1, pp: 1-23, 2020 (*SCIE, Scopus, DBLP*). [**Impact Factor 2.01**]
3. **Tawseef Ayoub Shaikh**, Waseem Ahmad Mir, Tabasum Rasool, and Shabir Sofi, “Machine Learning for Smart Agriculture and Precision Farming: Towards Making the Fields Talk”, *Archives of Computational Methods in Engineering*, Springer, Vol:4, pp: 1-41, 2022, (*SCIE, Scopus, DBLP*). [**Impact Factor 8.16**]
4. **Tawseef Ayoub Shaikh**, Tabasum Rasool, and Faisal Rasheed Lone, “Towards leveraging the role of machine learning and artificial intelligence in precision agriculture and smart farming”, *Computers and Electronics in Agriculture*, Vol: 198, 107119, pp: July 2022 (*SCIE, Scopus, DBLP*). [**Impact Factor 5.565**]

5. **Tawseef Ayoub Shaikh**, Rashid Ali, “An intelligent healthcare system for optimised breast cancer diagnosis using harmony search and simulated annealing (HS-SA) algorithm”, Elsevier, *Informatics in Medicine Unlocked*, Vol: 21, pp: 1-21, 2020 (**Scopus, DBLP**).
6. **Tawseef Ayoub Shaikh**, Rashid Ali, Waseem Mir, and Izharuddin, “An Intelligent Healthcare System for Automated Alzheimer’s Disease Prediction and Personalized Care”, *International Journal of Next-Generation Computing (IJNGC)*, Vol: 12, Issue: 2, pp: 240-253, 2021 (**Web of Science/ESCI and UGC-CARE list –II/Scopus**).
7. **Tawseef Ayoub Shaikh**, and Rashid Ali, “Enhanced computerised diagnosis of Alzheimer’s disease from brain MRI images using a classifier merger strategy”, *International Journal of Information Technology (IJIT)*, Vol: 14, pp: 1791-1803, Springer, 2021 (**Scopus, DBLP**).
8. **Tawseef Ayoub Shaikh** and Rashid Ali “Big Data for Better Indian Healthcare”, *International Journal of Information Technology (IJIT)*, Springer, Vol: 11, issue: 4, pp: 735-741, 2019 (**Scopus, DBLP**).
9. **Tawseef Ayoub Shaikh** and Rashid Ali, “Automated Machine Learning Tool for Breast Cancer Diagnosis for Healthcare Professionals”, *Health Systems Journal*, Taylor and Francis, 2021, pp: 1-31, DOI: 10.1080/20476965.2021.1966324 (**Web of Science, Scopus**).
10. **Tawseef Ayoub Shaikh** and Rashid Ali, “Automated Alzheimer's Disease Detection from Brain MRI Images Using a Smart Classifier Fusion Approach”, *Science, Engineering, and Health Studies SEHS Journal*, Vol: 16, pp: 1-9, 2022, (**Web of Science, Scopus**).
11. **Tawseef Ayoub Shaikh**, Tabasum Rasool, and Abrar Ahmed, “A Data-Centric Artificial Intelligent and Extended Reality Technology in Smart Healthcare Systems”, *Social Network Analysis and Mining*, Springer, Vol: 12, No. 122, pp: 1-33, 2022 (**In Press**) (**Web of Science, ESCI, Scopus**).
12. **Tawseef Ayoub Shaikh**, Umar Badr Shafeeque, and Maksud Ahamad, “Intelligent Distributed K-means Algorithm over Cloudera /Hadoop”, in *International Journal of Education and Management Engineering (IJEME)*, MECS PRESS, (Available online at <http://www.mecs-press.net/ijeme>).
13. **Tawseef Ayoub Shaikh** and Rashid Ali, “**Machine Learning: Messiah of 21st Century**,” CSI Communications, ISSN 0970-647X, Vol: 41, Issue: 8, pp: 6-9, November 2017.
14. **Tawseef Ayoub Shaikh** and Amit Chhabra, “Effect of WEKA Filters on the Performance of the Navie Bayes Data Mining Algorithm on Arrhythmia and Parkinson’s Datasets” (Best

Paper Award), *International Journal of Computer Sciences and Engineering (IJCSE)*, Vol:2, Issue: 5, 2014, E-ISSN: 2347-2693) {*UGC approved*}.

15. **Tawseef Ayoub Shaikh**, “Predictive Data Mining for Medical Diagnosis: An Overview of Segment and Arrhythmia Diseases”, *International Journal of Emerging Trends in Engineering and Development (IJETED)*, Vol: 3, Issue: 4, pp: 625-634, May 2014, ISSN 2249-6149 {*UGC approved*}.
16. **Tawseef Ayoub Shaikh**, “A Prototype of Parkinson’s and Primary Tumor Diseases Prediction Using Data Mining Techniques”, *International Journal of Engineering Science Invention (IJESI)*, Vol: 3, Issue: 4, pp: 23- 28, April 2014, ISSN (Online): 2319 – 6734 {*UGC approved*}.
17. **Tawseef Ayoub Shaikh**, “Methodology of Adaptation of Data Mining Methods (ANN and Decision Trees) for Nervous System and Arrhythmia Diseases”, *International Journal of Advanced Research in Computer Science and Software Engineering (IJARCSSE)*, Vol: 4, Issue: 4, pp: 474-479, April 2014 ISSN: 2277128X {*UGC approved*}.
18. **Tawseef Ayoub Shaikh**, Umar Badr Shafeeque, and Maksud Ahamad, “Big Data: The Futuristic Promising Savoir”, *International Journal of Scientific Research in Computer Science, Engineering and Information Technology, (IJSRCSEIT)*, Vol: 3, Issue: 1, pp: 516-521, 2018, ISSN: 2456-3307 {*UGC approved*}.
19. **Tawseef Ayoub Shaikh** and Rashid Ali, “Automated artificial intelligence-based breast cancer and diabetes prediction”, *International Journal of Technical Innovation in Modern Engineering & Science (IJTIMES)*, Vol: 5, Issue: 3, pp: 317-329, 2018, ISSN: 2455-2585 {*UGC approved*}.

CONFERENCE PUBLICATIONS/PRESENTED

1. **Tawseef Ayoub Shaikh** and Rashid Ali “**Quantum Computing in Big Data Analytics: A Survey**”, published in the proceedings of 16th IEEE International Conference on Computer and Information Technology held in Fiji from 6-10 December 2016, pp: 112-118, Available at IEEE Xplore (<http://ieeexplore.ieee.org/document/7876324/>) (*Scopus, DBLP*).
2. **Tawseef Ayoub Shaikh** and Rashid Ali “**A Dynamic Approach to Medical Data for Smart Indian Healthcare**”, published in the proceedings of the International Conference on Big Data Analytics And Computational Intelligence (ICBDACI-2017), Chirala, Andhra Pradesh, India, from 23-25 March 2017, pp: 58-62, Available at IEEE Xplore (<http://ieeexplore.ieee.org/document/8070828/>) (*Scopus*).
3. **Tawseef Ayoub Shaikh** and Rashid Ali, “**Applying Machine Learning Algorithms for Early Diagnosis and Prediction of Breast Cancer Risk**”, published in the proceedings of Springer LNNS Series-2nd International Conference on Communication, Computing

and Networking, organised by Department of Computer Science & Engineering, National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh, India from 29-30, March 2018, pp: 589-598 (*Scopus*).

4. **Tawseef Ayoub Shaikh** and Rashid Ali, “**Combating Breast Cancer by an Intelligent Ensemble Classifier Approach**”, in the proceedings of International Conference on Bioinformatics and Systems Biology, (BSB-2018), hosted by IEEE Computer Society in collaboration with the Computer Society of India (CSI), held at IIIT Allahabad, India from October 26-28, 2018, pp: pp: 5-10, Available at IEEE Xplore (<https://ieeexplore.ieee.org/abstract/document/8770684>) (*Scopus*).
5. **Tawseef Ayoub Shaikh**, Rashid Ali and Adil Rashid, “**Soft Computing in Data Mining: A Tool for Computational Web Intelligence (CWI)**” published in the proceedings of 4th National Conference on Innovation in Computing and Communication Technology-2016, held at Kongunadu College of Engineering and Technology, Tiruchirappalli, Tamil Nadu on 25th March 2016, (*International Journal of Computer Applications (0975 – 8887)*).
6. **Tawseef Ayoub Shaikh** and Rashid Ali “**An Automated Diagnosing System for Human Brain Disorders**”, published in proceedings of 13th Session of Jammu & Kashmir Science Congress (JKSC-18), organised by the University of Kashmir in collaboration with J&K State Science Technology & Innovation Council, Govt. of J&K, held at University of Kashmir, from 02-04 April 2018.
7. **Tawseef Ayoub Shaikh**, “**A Novel Method Based on Privileged Information for Breast Cancer Classification**”, published in the proceedings of the International Conference on Computational Mathematics and its Applications (CMA 2019), Organised by Discipline of Mathematics Indian Institute of Technology Indore from Nov 12-14, 2019.
8. **Tawseef Ayoub Shaikh** and Rashid Ali, “**A CAD Tool for Breast Cancer Prediction using Naive Bayes Classifier**”, published in the proceedings of the International Conference on Emerging Smart Computing and Informatics (ESCI) AISSMS Institute of Information Technology, Pune, India. Mar 12-14, 2020, pp: 351-356, Available at (<https://ieeexplore.ieee.org/abstract/document/9167568>) (*IEEE, Scopus, DBLP*).
9. **Tawseef Ayoub Shaikh**, Rashid Ali, Waseem Mir, and Izharuddin, “**An Intelligent Healthcare System for Automated Alzheimer’s Disease Prediction and Personalized Care**”, in the International Conference on Convergence of Smart Technologies Conference (IC2ST-2021), hosted by the Aspire Research Foundation, 05, A-Wing, MCCIA Trade Tower, ICC Complex, 403, Senapati Bapat Rd, Pune, India Pune, India, January 9-10, 2021.
10. **Tawseef Ayuob Shaikh**, Waseem Ahmad Mir and Izharuddin, “**Automated Fiber Quantification for Alzheimer’s Disease Diagnosis from Neuropsychological Biomarkers**”, published in the proceedings of the 7th International Conference on Advanced Computing and Communication Systems (ICACCS). 19th- 20th March 2021,

IEEE and IEEE Madras Section, pp: 913-918, Available at (<https://ieeexplore.ieee.org/abstract/document/9441705>)

11. Iqra Nisar, Waseem Ahmad Mir, Izharuddin and **Tawseef Ayoub Shaikh**, “**Machine learning approaches for detection and diagnosis of Parkinson’s Disease-A Review**”, published in the proceedings of the 7th International Conference on Advanced Computing and Communication Systems (ICACCS). 19th- 20th March 2021, IEEE and IEEE Madras Section, 2021, pp: 898-905, Available at (<https://ieeexplore.ieee.org/abstract/document/9441885>).
12. Tabasum Rasool, Ruhhee Tabbussum, **Tawseef Ayoub Shaikh**, “**Soil Erosion Estimation Using RUSLE Model and GIS-A Case Study of Himalayan Sub-watershed**”, In Proceedings of AGU Fall Meeting 2021, McCormick Place Convention Center 2301 S. Lake Shore Drive Chicago.

BOOK CHAPTERS

1. **Tawseef Ayoub Shaikh**, Rashid Ali, “**Fog- IoT environment in smart healthcare: A case study for student stress monitoring**”, published in the book “**Fog Computing for Healthcare 4.0 Environments: Technical, Societal, and Future Implications**” published by Springer. (pp:211-250), ISBN: 978-3-030-46197-3 (Scopus).
2. **Tawseef Ayoub Shaikh**, Rashid Ali, “**Quantum computation for big information processing**”, published in book “**Blockchain big data and machine learning trends and applications**” published by CRC Press, Taylor and Francis Group, ISBN: 9780367370688.
3. **Tawseef Ayoub Shaikh**, Rashid Ali, “**Computer-aided big healthcare data (BHD) analytics**”, published in the book entitled “**Big data analytics and intelligence: A perspective for Healthcare**”, published by Emerald Publishing, ISBN: 978-1-83909-100-1.
4. **Tawseef Ayoub Shaikh**, Tabasum Rasool, Younis Ahmed Malla, and Shabir Sofi, “**An AI-based Cyber-physical System for 21st based Intelligent Healthcare**”, published in the book “**Cyber-Physical Systems: Research Issues and Challenges**”, CRC Press, Taylor and Francis Group: ISBN: 9781032065465, <https://doi.org/10.1201/9781003202752>.
5. **Tawseef Ayoub Shaikh**, Waseem Ahmad Mir, and Shabir Sofi, “**Decrypting the Black Boxing of Artificial Intelligence Using Explainable Artificial Intelligence in Smart Healthcare**”, published in the book “**Connected e-Health: Integrated IoT and Cloud Computing**”, Springer, ISBN: 978-3-030-97929-4.

6. Waseem Ahmad Mir, Izharuddin, **Tawseef Ayoub Shaikh** and Junaid Ali Reshi, “**Towards the Smart Diagnosis of Brain Disorders Using Artificial Intelligence**”, In the book “**AI-Enabled IoT for Smart Healthcare Systems**”, Published by **Nova Publishers USA**, 2022, DOI: <https://doi.org/10.52305/RGPB8318>, ISBN: 978-1-68507-977-2.
7. Waseem Ahmad Mir, Zamarrud, Izharuddin, and **Tawseef Ayoub Shaikh**, “**Smart Approaches for Diagnosis of Brain Disorders using Artificial Intelligence**” In Production of the book “**Machine Learning and Artificial Intelligence in Healthcare Systems: Tools and Techniques**” published by CRC Press, Taylor and Francis Group, ISBN: 9781003265436.

EDITED BOOKS

1. **Tawseef Ayoub Shaikh**, Tabasum Rasool, and Mohammed Wasid, “**AI-Enabled IoT for Smart Healthcare Systems**”, Published by **Nova Publishers USA**, 2022, DOI: <https://doi.org/10.52305/RGPB8318>, ISBN: 978-1-68507-977-2.
2. **Tawseef Ayoub Shaikh**, Saqib Hakak, Tabasum Rasool, and Mohammed Wasid, “**Machine Learning and Artificial Intelligence in Healthcare Systems: Tools and Techniques**”, Published by **CRC Taylor & Francis**, 2022, ISBN 9781032208329.

BEST PAPER AWARD

13. Got awarded the best paper entitled, “**An Intelligent Healthcare System for Automated Alzheimer’s Disease Prediction and Personalized Care**”, in the International Conference on Convergence of Smart Technologies Conference (**IC2ST-2021**), hosted by the Aspire Research Foundation, 05, A-Wing, MCCIA Trade Tower, ICC Complex, 403, Senapati Bapat Rd, Pune, India Pune, India, January 9-10, 2021.
14. Got awarded the best paper entitled, “**Effect of WEKA Filters on the Performance of the Navie Bayes Data Mining Algorithm on Arrhythmia and Parkinson’s Datasets**” (Best Paper Award), *International Journal of Computer Sciences and Engineering (IJCSE)*, Volume-2, Issue -5, E-ISSN: 2347-2693 {*UGC approved*}.

WORKSHOPS ATTENDED

1. Attended One Week National Workshop **GIAN (Global Initiative of Academic Network) on Graph Mining Analysis**, sponsored by **MHRD (Ministry of Human Resource & Development, GOI India)**, Organised by Department of Computer Science Jamia Millia Islamia, and New Delhi from 17 to 23 December 2015.
2. Attended One-week Hands-on Tutorial in National Workshop **GIAN (Global Initiative of**

Academic Network) on Graph Mining Analysis using R, sponsored by MHRD (Ministry of Human Resource & Development, GOI India), Organised By Department of Computer Science Jamia Millia Islamia, New Delhi from 17 to 23 December 2015.

3. Attended One Week National Workshop on **Machine Learning and Data Analytics, sponsored by TEQIP-II**, Organised by Government Woman Engineering College Ajmer (GWECA), Rajasthan, from 14 to 18 January 2016.
4. Attended One Week Hands-on Tutorial on **HIVE, PIG, HADOOP, R, SPARK and RATTLE on Machine Learning and Data Analytics, sponsored by TEQIP-II**, Organised by Government Woman Engineering College Ajmer (GWECA)-Rajasthan, from 14 to 18 January 2016.
5. Attended One Week National Level Workshop on **Big Data and Soft Computing: Techniques and Applications, sponsored by TEQIP-II**, Organised by Department of Computer Engineering, Zakir Hussain College of Engineering (ZHCET), Aligarh Muslim University (AMU), Aligarh.
6. Attended One day **International Workshop on Big Data Analytics (WBDA 2016), organised by the School of Computer and System Sciences**, Jawaharlal Nehru University, New Delhi, on 30 March 2016.
7. Attended One day workshop on **Introduction to Data Science using Statistica**, Organised by Department of Computer Engineering, Zakir Hussain College of Engineering (ZHCET), Aligarh Muslim University (AMU), Aligarh, on March 6, 2017.
8. Attended One day workshop on **Challenges and Opportunities in Data Analytics and its Applications**, held on Department of Computer Science & Engineering, School of Engineering Sciences and Technology, Sponsored by SERB-DST, Government of India, Jamia Hamdard New Delhi on 16th October 2017.
9. Attended three days' Workshop on **Visvesvaraya Ph.D. Scheme for Electronics & IT/ITES**, held at Andra University, Vishakapatnam from 16-18 November 2017.
10. Attended One day Author workshop by **SPRINGER NATURE**, held at Aligarh Muslim University on 3 November 2016.
11. Attended One Week National Level Workshop on **Research Methodology**, held at the Department of Physical Education, Aligarh Muslim University, from 22 to 28 May 2016.
12. Attended One Week **GIAN (Global Initiative of Academic Network) Workshop on Biomedical Signal Acquisition, Processing and Analysis**, Organised by Department of Electrical Engineering Indian Institute of Technology (IIT) Roorkee and sponsored **MHRD (Ministry of Human Resource & Development, GOI India)**, from 18-23 December 2017.

13. Attended One Week **GIAN (Global Initiative of Academic Network)** Workshop on **Computer Security from the Data Science Perspective**, Organised by Department of Computer Science and Engineering Indian Institute of Technology (IIT) Ropar, Punjab and sponsored **MHRD (Ministry of Human Resource & Development, GOI India)**, from 25-30 December 2017.
14. Attended One day workshop on **MENDELEY** by **Elsevier**, held at Prof. M.N Farooqi Computer Centre, Aligarh Muslim University on 28 January 2018.
15. Attended One Week Workshop on **Deep Learning**, sponsored by **TEQIP-III**, Organised by Department of Computer Engineering, Zakir Hussain College of Engineering (ZHCET), Aligarh Muslim University (AMU), Aligarh, from 5 to 9 March 2018.
16. Attended One day International workshop on **Managing Research with Effective Outcome**, sponsored by **TEQIP-III**, Organised by the Department of Computer Engineering, Zakir Hussain College of Engineering (ZHCET), Aligarh Muslim University (AMU), Aligarh, on 6 August 2018.
17. Attended one day workshop on **Intellectual Property Rights (IPR)**, organised by Institution Innovation Council (IIC), BGSBU Rajouri on 25th January 2019.
18. Attended one-week **AICTE ICT-based** Workshop on **Artificial Intelligence and Optimization**, organised by the Electrical engineering department, NITTTR Chandigarh, from 21-01-19 to 25-01-2019.
19. Attended one-week short term course on **Advanced Pedagogies: Active learning and digital tools**, organised by Indian Institute of Delhi (IITD), from 17-06-19 to 21-06-2019.
20. Attended a one-week faculty development program on **Machine learning using Python**, conducted by the Electronics & ICT Academy, Indian Institute of Technology, Roorkee, held at Islamic University of Science & Technology (IUST) Awantipora, from July 01 to July 05-2019.
21. Attended Two-Day Workshop On **“Technical Manuscript Preparation with LaTeX (LyX)”**, Under **TEQIP-III**, Organised by Department of CSE, Baba Ghulam Shah Badshah University, in collaboration with ZHCET, AMU, from 29th July to 30th July 2019.
22. Attended one week ICT-based Workshop On **“Data Science using R”**, held by the Department of Computer sciences, Baba Ghulam Shah Badshah University and organised by NITTTR Chandigarh, from 14th to 18th October 2019.
23. Attended two-week DST sponsored Workshop On **“Quantum Science & Technology”**, held at Baba Ghulam Shah Badshah University and organised Department of Physics, BGSB University, Rajouri, from 16th to 30th December 2019.

24. Attended one week Short term course On “**Computer-aided applied numerical and optimisation techniques**”, sponsored by TEQIP-III, held at IIT Guwahati from 17 to 21 January 2020.
25. Attended one day webinar on, “**Accelerate Research Planning using Elsevier, ScienceDirect, and Mendeley**”, on 4th May, 2020, organised by Islamic University of Science & Technology (IUST), Awantipora, in collaboration with Elsevier.
26. Attended one day webinar on, “**Exploring the Role of Science, End Note X9, Journal Citation Report & Incites for Promoting Excellence in Research**”, on 5th June, 2020, organised by Islamic University of Science & Technology (IUST), Awantipora, in collaboration with Clarivate Analytics.
27. Attended one day webinar on, “**Large Scale Least Squares Twin SVMs**”, on 20th August, 2020, organised by Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore.
28. Attended one day Workshop on, “**Quality Research and Scholarly Publications using Scopus and Mendeley**”, on 19th May, 2020, organised by Faculty of Social Sciences, Aligarh Muslim University, Aligarh in collaboration with Elsevier.
29. Attended two days online course on, “**The Essence of Research Methodology**”, 16th-17th, May, 2020, organised by Jamal Mohamed College, Tiruchirappali, Tamilnadu, India.
30. Attended one-week FDP on, “**Insights into quality Research and Innovation**”, from 13th to 20th May, 2020, organised by Research & Development Cell and Institution’s Innovation Council of Vivekanandha College of Engineering for Women.
31. Attended one-day FDP on, “**Are You IoT Ready? Join Configuration of Smart Home using CISCO Packet Tracer**”, on 23th May, 2020, organised by Department of Computer Science & Engineering, JAIN University.
32. Attended one day Webinar on, “**Artificial Intelligence**”, on 13th May, 2020, organised by Department of Computer Science, G.T.N Arts Collage, Dindigul, Tamilnadu.
33. Attended one day Workshop on, “**Tensor Flow for Deep Learning**”, on 6th May, 2020, organised by Tyrone Presents.
34. Attended one-week FDP on, “**Machine Learning using Python**”, from 19th to 22th May, 2020, organised by Department of Computer Engineering, Poornima Institute of Engineering & Technology and sponsored by Indian Society for Technical Education.

35. Attended one day Workshop on, “**Machine Learning Algorithms, Applications and Trends**”, on 10th May, 2020, organised by School of Computational Sciences in association with Computer Society of India, Chennai.
36. Attended one day Workshop on, “**Machine Learning in Cyberpsychology Studies**”, on 29th May, 2020, organised by Gandhi Institute for Education & Technology, Baniatangi, Bhubaneswar.
37. Attended one-week AICTE ICT based Workshop on **Open Source Tools**, organised by the Electrical engineering department, NITTTR Chandigarh, from 10-02-20 to 14-02-2020.
38. Attended one-week FDP on, “**Artificial Intelligence-Driven Biomedical Data Analysis for Disease Diagnosis**”, from 05th to 10th November, 2020, organised by Department of Mathematics, Indian Institute of Technology (IIT), Indore, India.
39. Attended two weeks **Nascom** training on, “**I and Machine Learning**”, from 20th to 27th November 2020, organised by Indian Institute of Technology (IIT), Indore, India.
40. Attended three days FDP on, “**Open-source tools for scientific computing: Scilab, Python, R, and Latex**”, from 28th December 2020 to 01st January 2021, organised by Indian Institute of Technology (IIT), Roorkee, India.
41. Attended two days Workshop on, “**Research Methodology**”, on 11th -12th January 2021, organised by Dr B R Ambedkar Central Library, JNU, India.
42. Attended three days FDP on, “**Artificial Intelligence, Blockchain and Internet of Things for 6G Communications**”, from 03th to 05th December 2020, organised by Centre for Advanced Electronics, Indian Institute of Technology (IIT), Roorkee, India.
43. Attended Week FDP on, “**Essentials of Emerging Technologies (AI/ML/Deep Learning & Big Data) in Research**”, from 04th to 08th January, 2021, organised by the Department of Computer Science, ABES Engineering College, Ghaziabad.
44. Attended three days International seminar on, “**Advances in Artificial Intelligence and Machine Learning**”, organised by the Department of Computer Engineering & Interdisciplinary Centre for Artificial Intelligence, Aligarh Muslim University, Aligarh held from 19 th March 2021 to 21st March 2021 in online mode.
45. Attended one week Workshop on, “**Application of Artificial Intelligence and IoT in Civil Engineering**”, organised by Department of Civil Engineering, Moulana Azad National Institute of Technology (MANIT), Bhopal, held from 23th to 27th March 2021 in online mode.

46. Attended one week Workshop on, “**Advancement of Intelligent System and Computation**”, organised by Department of CSE, JIS College of Engineering, West Bengal, held from 20th to 24th April 2021 in online mode.
47. Attended one day Webinar on, “**Artificial Intelligence-An Intelligent Transformation Towards a Smarter World,**” organised by Department of Information Technology, Sadakathullah Appa College, Tirunelveli on 25th June 2021.
48. Attended one day Webinar on, “**Basic Concepts of MATLAB and their Applications,**” organised by Department of Physics, DAV University, Jalandhar on 15th June 2021.
49. Attended two days webinar on “ **Recent Developments on Big Data, Cloud Computing, Quantum Computing and Hardware Technology** ”, from 26th July, 2021 to 27th July, 2021, conducted by the Department of Computer Science, Assam University, Silchar with a score of 18 / 25.
50. Attended one day webinar on “**Evolutionary Intelligence in Engineering**” organized by Department of CSE, Indira Gandhi Delhi Technical University for Women (IGDTUW), Delhi on 17-07-2021.
51. Attended one-week AICTE ISTE Workshop on, “**Machine Learning and its Applications**”, organised by R C Patel Institute of Technology, Shirpur Maharastra, held from 18th to 24th May 2021 in online mode.
52. Attended and qualified one-week AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "**Bio-Medical Signal Processing for Smarter Mobile Healthcare**" from 2021-7-19 to 2021-7-23 at GIET University.
53. Attended One day Webinar on “**Neuromorphic Computing: Bridging the Gap Between Nanoelectronics, Neuroscience & Machine Learning**” organized by Computer Society of India, Kolkata Chapter on February 12th 2022.

EXPERTS TALKS/INVITED TALKS

1. Delivered invited guest lecture on **WEKA: A Machine learning toolkit** in one week workshop on **Machine Learning: Tools & Techniques**, jointly organised by CSE/IT Deptt, BGSBU in collaboration with ZHCET, AMU, sponsored by TEQIP-III, from 31-Oct to 04-Nov-2018.
2. Delivered invited guest lecture on **Supervised Learning** and practical hands-on tutorial using **WEKA**, in one week workshop on Machine Learning: Tools & Techniques, jointly organised by CSE/IT Deptt, BGSBU in collaboration with ZHCET, AMU, sponsored by TEQIP-III, from 31-Oct to 04-Nov-2018.

3. Delivered invited guest lecture on **Unsupervised Learning** and practical hands-on tutorial using **WEKA**, in one week workshop on Machine Learning: Tools & Techniques, jointly organised by CSE/IT Deptt, BGSBU in collaboration with ZHCET, AMU, sponsored by TEQIP-III, from 31-Oct to 04-Nov-2018.
4. Delivered invited guest lecture on **Data transformation, data visualisation, and data analytics** in two weeks faculty development program (FDP-ML 2019) on **Machine Learning**, organised by Department of Computer Sciences, BGSBU, from 22-April-2019 to 04-May-2019.
5. Delivered hands-on session on **Supervised Learning** using various Machine learning tools, in two weeks faculty development program (FDP-ML 2019) on **Machine Learning**, organised by Department of Computer Sciences, BGSBU, from 22-April-2019 to 04-May-2019.
6. Delivered hands-on session on **Unsupervised Learning**, using various Machine learning tools, in two weeks faculty development programs (FDP-ML 2019) on **Machine Learning**, organised by Department of Computer Sciences, BGSBU, from 22-April-2019 to 04-May-2019.
7. Delivered invited guest lecture on “**Machine intelligence**”, in one-week short term course, “**Computer-aided applied numerical and optimisation techniques**” sponsored by TEQIP-III, held at IIT Guwahati from 17 to 21 January 2020.

OTHER RESPONSIBILITIES/DUTIES

1. Participated in completing all paperwork and in NAAC university of BGSB University.
2. Participated in completing all paperwork regarding NBA accreditation of BGSB University.
3. Nodal officer for Sports of Computer Science & Engineering Department, BGSBU, for Inter-University Tournaments, 2018-19.
4. Nodal officer for Sports of Computer Science & Engineering Department, BGSBU, for Inter-University Tournaments, 2020-21.

NEPTEL/ SAYAM COURSES

1. Attended and qualified Swayam (NPTEL) 8 weeks course on “**Data Mining**”, with 61% score.

WORKSHOP ORGANIZER

1. Organised a week workshop on **Machine Learning: Tools & Techniques**, jointly organised by CSE/IT Deptt, BGSBU in collaboration with ZHCET, AMU, sponsored by TEQIP-III, from 31-Oct to 04-Nov-2018.
2. Organised Two-Day Workshop On “**Technical Manuscript Preparation with LaTeX (LyX)**”, Under **TEQIP-III**, Organised by Department of CSE, Baba Ghulam Shah Badshah University, in collaboration with ZHCET, AMU, from 29th July to 30th July 2019.

CITATIONS

1. More than 155 citations on Google Scholar with an h-index of 7.

TECHNICAL – SKILLS

1. Programming Languages: Data Science languages R, Python, MATLAB, Octave and C/C++, Asp.Net with C#, PHP, HTML.
2. Operating Systems: Very comfortable in both windows and Linux environments.
3. Tools & Packages: LATEX, Beamer, OMNeT++, MS Office, Dreamweaver.

CERTIFICATES

1. Three months Certified Course in **Oracle and PL/SQL at NILEIT (Formally DOEACC), University of Jammu.**
2. Forty Days Certified Course in **CCNA at NILEIT (Formally DOEACC), University of Jammu.**
3. One Week Certified Course in **VLSI Design by Resolute Consultancy.**
4. One Week Volunteer Certificate in National Level Workshop on **Big Data and Soft Computing: Techniques and Applications**, sponsored by **TEQIP-II**, Organised by Department of Computer Aligarh.
5. Qualified certified exam **GIAN (Global Initiative of Academic Network) on Graph Mining Analysis**, sponsored by **MHRD (Ministry of Human Resource & Development, GOI India)**, Organised by Department of Computer Science Jamia Millia Islamia, and New Delhi from 17 to 23 December 2015.
6. Presentation certificate for the paper “**Soft Computing in Data Mining: A Tool for Computational Web Intelligence (CWI)**” presented at 4th National Conference on Innovation in Computing and Communication Technology-2016, held at Kongunadu College of Engineering and Technology, Tiruchirappalli, Tamil Nadu on 25th March 2016.
7. Presentation certificate for the paper “**Big Data for Better Indian Healthcare**”, presented at 4th International Conference on Computing for Sustainable Development, 11th IndiaCOM, 3-4 March 2017.
8. Attended One day **Workshop** on 10th April 2017 on “**Career Orientation Program for Research Scholars**”, organised by Deptt of Chemical Engineering, AMU Aligarh.
9. Attended One day workshop on **Introduction to Data Science using Statistica**, Organised by Department of Computer Engineering, Zakir Hussain College of Engineering (ZHCET), Aligarh Muslim University (AMU), Aligarh, on March 6, 2017.

10. One Day Volunteer Certificate on **Introduction to Data Science using Statistics**, Organised by Department of Computer Engineering, Zakir Hussain College of Engineering (ZHCET), Aligarh Muslim University (AMU), Aligarh, on March 6, 2017.
11. Attended two days National Research Scholar's Conclave on **Innovation and Recent Trends in Science and Technology (IRTST -2016)**, National Institute of Technology Srinagar, J&K, April 2-3, 2016.
12. Acted as Reviewer, and Technical Program Committee Members, in Springer CCIS Series Conference Proceedings of the "3rd International Conference on Computing Science, Communication and Security (COMS2-2022)" organized by the Ganpat University, Gujarat, INDIA on 6 th - 7 th February 2022.

COURSES TAUGHT

1. Computer Organization & Architecture (COA) to 5th Sem. CoET, BGSBU Rajouri.
2. Principles of Programming Languages (PPL) to 5th Sem. CoET, BGSBU Rajouri.
3. Software Engineering to 4th Sem., CoET, BGSBU Rajouri.
4. Data Mining and Data Warehousing to 8th Sem., CoET BGSBU Rajouri.
5. Computer Graphics lab to 4th Sem., CoET BGSBU Rajouri.
6. Expert Systems to 7th Sem, CoET BGSBU Rajouri.
7. Compiler Design to 7th Sem, CoET BGSBU Rajouri.
8. GATE lectures to B-Tech students CoET BGSBU Rajouri.
9. Python Programming
10. C Programming
11. Object-Oriented Programming
12. Artificial Intelligence to 7th Sem., CoET BGSBU Rajouri.
13. Design and Analysis of Algorithms 4th Sem., SOT PDPU Gandhinagar.
14. Operating Systems 4th Sem., SOT PDPU Gandhinagar.
15. Design and Analysis of Algorithms Lab 4th Sem., SOT PDPU Gandhinagar.
16. Compiler Design 5th Sem, SOT PDPU, Gandhinagar.

PROJECTS GUIDED B-TECH

Guided and completed five projects for the award of B-Tech degree.

- i) Arduino for Communication (2018-2019)
- ii) Sentiment Analysis using Machine Learning (2019-2020)
- iii) Fake News Detection (2019-2020)
- iv) Securing Branches of an Enterprise Using DMVPN (2020-2021)
- v) OTT Platform by Vishwas Ganatra (2021-22) at SOT, PDPU.
- vi) Enterprise Data Warehouse with Interactive Dashboards and Reports by Het Naik (2021-22) at SOT, PDPU.
- vii) GYM Website by Raghu Bhetwal (2021-22) at SOT, PDPU.
- viii) SipNBite | Restaurant Website by Darshil Vihol (2021-22) at SOT, PDPU.
- ix) Ezeelink-Calling and SMS Website by Kevan Mehta (2021-22) at SOT, PDPU.
- x) Ecommerce website by Md Sad (2021-22) at SOT, PDPU.

M-TECH SUDENTS GUIDED

1. Guided and completed Yash Patel (Roll No. 20MDS017) for M-Tech Dissertation Thesis entitled, “**Data Analysis and Visualization of John Hopkins Covid Data in Power-BI**”, for the award of Master in Technology, May 2022.

PROFESSIONAL MEMBERSHIP

1. Lifetime membership of the Computer Society of India (CSI), (11506015).
2. Lifetime membership of The Indian Society for Technical Education (ISTE), (LM-132246).
3. Lifetime membership of The Institution of Electronics and Telecommunication Engineers (IETE) (M-502497).
4. Member of International Computer Science & Engineering Society (ICSES, id 302).
5. Member of Indian Journal of Science & Technology (IJST).
6. Member of the International Association of Engineers (IAENG).
7. The World Congress on Engineering WCE 2018 (Member No: 191644).
8. World academy of science engineering and technology.
9. Student Member of IEEE
10. Membership of Big Data Analyst
11. BigML member (bigml.com)
12. Professional membership on LinkedIn
13. Student Membership of Nature Science Direct.
14. Member of Data Science Journal
15. Member of BioMed Central (<https://www.biomedcentral.com>)
16. Member of Cosmic Journals Group
17. Member of the Institution of Engineers (India) [IEI]

REVIEWER

1. The reviewer of the **Journal Big Data**, Springer (*Scopus indexed*).
2. The reviewer of the Artificial Intelligence and Machine Learning, ICT Express Open Access Journal Elsevier.
3. The reviewer of the **Brain Imaging and Behavior Journal**, Springer (*SCIE Indexed*).
4. The reviewer of the **The Imaging Science Journal**, Taylor and Francis (**SCI, Scopus Indexed**).
5. The reviewer of the **Journal Multimedia Tools and Applications**, Springer (*SCIE Indexed*).

LANGUAGES KNOWN

English, Hindi, Urdu, Kashmiri.

PERSONAL DETAILS

Date of Birth	:	10th October, 1988
Nationality	:	Indian
Gender	:	Male
Marital Status	:	Married
Father's name	:	Mohd Ayoub Shaikh
Permanent address	:	Kadder Kulgam, Kashmir-192232

REFERENCES

- **Professor Rashid Ali**
Professor, Department of Computer Engineering, Aligarh Muslim University, Aligarh
Email: rashidaliamu@rediffmail.com, Phone: +91-941141942.
- **Professor M. Tanveer**
Assistant Professor, Discipline of Mathematics, Indian Institute of Technology Indore, MP
Email: mtanveer@iiti.ac.in, Phone: - +91 732 4306 599.
- **Professor Parminder Kaur**
Professor, Computer Engineering Deptt, Guru Nanak Dev University (GNDU), Amritsar Email:
parminder.dcse@gndu.ac.in, Phone: +91-9914010452.
- **Professor Shabir Ahmad Sofi**
Associate Professor, Information Technology Deptt, NIT Srinagar, Jammu & Kashmir
Email: shabir@nitsri.net, Phone: +91- 9419009971.

DECLARATION

I do hereby declare that all the above information is true to the best of my knowledge.

Date: 03 /09/ 2022

Place: NIT Srinagar, J&K



(Tawseef)
Assistant Professor
Department of Computer Science & Engineering
National Institute of Technology (NIT), Srinagar, Jammu & Kashmir