

Dr. RAFAQ AHMED

Assistant Professor
CSED, KNIT
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**OFFICE ADDRESS :**

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RESIDENCE ADDRESS

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CURRENT POSITION HELD

- Assistant Professor in CSE Department of Kamla Nehru Institute of Technology (**KNIT**) Sultanpur since September 1st, 2018.

PREVIOUS POSITIONS HELD

- Worked as an Assistant Professor in the department of Computer Science & Engineering, Baba Ghulam Shah Badshah University (BGSBU), Rajouri, J&K from 26th Dec'17 to 30th July'18.
- Worked as an Assistant Professor in the department of Computer Science & Engineering, Integral University, Lucknow from 28th Jan'13 to 28th Oct'14.
- Worked as an Assistant Professor (IT Department) at Raj Kumar Goel Institute of Technology, Ghaziabad from 18th Jan'12 to 17th Jan'13.

ACADEMIC QUALIFICATION

- Doctorate of Philosophy (Ph.D.) on the topic "Text Mining using Big Data Analytics -A Fuzzy Approach", from Jamia Millia Islamia in 2021.
- M.Tech (Software Engg.) from Zakir Hussain College of Engineering & Technology, AMU, 2011 (Gold Medal)
- B. Tech (Computer Engg.) from Zakir Hussain College of Engineering & Technology, AMU, 2009 (Passed with Honors.)
- Intermediate from Lucknow Public Inter College, Lucknow in 2004 (Passed with Hons.)
- High school from Lucknow Public Inter College, Lucknow in 2002 (Passed with 1st Div.)

AWARDS & ACHIEVEMENT

- Gold Medal** for highest marks in the class in M. Tech
- B.Tech, M.Tech **passed with Honors**
- Working as **TEQIP Faculty** in TEQIP-III Project of NPIU (**MHRD Sponsored**)
- Qualified **GATE 2009** with All India rank 951
- Qualified **GATE 2014, GATE 2020**

- ✚ NPTEL All India Topper (2%) in “Programming for Problem Solving” course
- ✚ Passed 10 NPTEL Courses online
- ✚ Organizing Member of 2nd International Conference ICACSE-2019, KNIT Sultanpur, 8-9 Feb’19.
- ✚ Organizing Member of 3rd International Conference ICACSE-2021, KNIT Sultanpur, 19-20 Feb’21.
- ✚ Best Paper Award at SIGMA’18, 2018 at NSIT New Delhi (23rd -25th Feb 2018)
- ✚ Taken Expert Lecture on “Big Data & Hadoop” in Short Term Course on Recent Advances at Power & Energy Management in ERE Dept., BGSBU, Rajouri, J&K
- ✚ Awarded UGC-MANF Fellowship in Ph.D.
- ✚ Awarded with MHRD Scholarship at M. Tech for GATE basis

M.TECH. DISSERTATION : Knowledge Representation for Adaptive e-Learning

B.TECH. PROJECT : Dynamic Bandwidth Allocation.

M.TECH / B. TECH MINI PROJECTS:

- Contributed to BRIHASPATI (IIT K Project) for English to Arabic Translation
- Hospital Management System
- Logician
- Text to Speech Synthesizer
- Implementation of FTP

SUBJECTS TAUGHT

- Computer Organization & Architecture
- Neural Network
- C-Language (Programming for Problem Solving)
- Microprocessor & Its Applications
- Graph Theory
- Digital Logic Design
- Python Programming
- Design & Analysis of Algorithm
- Operating System

PUBLICATION INDEXING

- ✚ Number of papers indexed in SCI/SCIE/ESCI/SCOPUS: **10+**
- ✚ CITATIONS: **40**, H-index: **4**, i10-index: **1**

GOOGLE SCHOLAR LINK: <https://scholar.google.co.in/citations?hl=en&user=y8QQk0YAAAAJ>

PATENTS

Mohammad Shuaib, Shadab Alam, **Rafeeq Ahmed**, et al, “ASHTMA DETECTION AND NOTIFICATION USING IOT BASED WITH VERY SMALL DEVICE”, Indian Patent Number- 202141004759, Date of Filing- 04/02/2021, Publication Date: - 26/02/2021 (Status- Published)

RESEARCH AND INTERESTED AREAS

Big Data, Data Mining, Text Mining, Machine Learning, E-learning, Deep Learning, IOT

B. TECH PROJECT GUIDED: - 06

Other Responsibilities:

- Additional Class Coordinator: CSE Class (2020 Admission), KNIT
- Additional Class Coordinator of Final Year, 2019-20 in the CSE Dept., KNIT Sultanpur
- Additional Project In-charge of Final Year, 2019-20 in the CSE Dept., KNIT Sultanpur
- Additional Seminar In-charge of Final Year, 2019-20 in the CSE Dept., KNIT Sultanpur
- Departmental Representative (CSE, KNIT) of Employability & Skill Training Program, 2019-20
- University Swayam Mentor (USM) of CSE Dept., BGSBU

MOOCS/NPTEL COURSES (FDP AICTE)

- Big Data Computing (IIT P)
- Data Mining (IIT KH)
- Problem Solving through Programming in C (IIT KH) (All India Topper 2%)
- The Joy of Computing using Python (IIT KH)
- Python Programming – A Practical Approach (E&ICT Academy, IIT K)
- Data Analytics with Python (IIT R)
- Data Science for Engineers (IIT M)
- Deep Learning Part-1 (IIT Ropar)
- Introduction to Soft Computing (IIT KH)
- Fuzzy Logic and Neural Network (IIT KH)

WORKSHOPS/FDP ATTENDED

- ✚ **2020-** Participated in TEQIP-III Sponsored Five Days Workshop cum FDP on “**DATA SCIENCES**”, May 04-08, 2020, Jointly organized by KNIT Sultanpur & MNNIT Allahabad, Prayagraj
- ✚ **2020-** Participated in TEQIP-III Sponsored 10 days Short Course on “**Data Science**” held at **IIT Gandhinagar**, 17th- 27th February, 2020
- ✚ **2019-** Participated in one-week National Workshop on “**Advanced Pedagogies: Active Learning and Digital Tools**” held at **IIT Guwahati**, 1st – 5th July, 2019
- ✚ **2019-** Participated in one-week Faculty Development Program on “**Robotics & AI**”, jointly organized by IIITDM Jabalpur, MNIT Jaipur, NIT Patna and NIT Warangal, 24th-28th June, 2019
- ✚ **2019** -Participated in one-day Workshop on “**Collaborative Research Scheme: Knowledge Incubation for TEQIP-III**”, conducted on 13th May’19 under aegis of NPIU, organized by SPIU-UP
- ✚ **2018-** Attended 2-week summer school on “**9th IASNLP: IIIT-Hyderabad Advanced School on Natural Language Processing**” held at IIIT H workshop from 25th June to 7th July, 2018
- ✚ **2018-** Participated in Workshop on “**Outcome Based Education for Undergraduate Engineering Programs**”, 19 -20 March at BGSBU, Rajouri, J&K
- ✚ **2018-** Participated in FDP, “**Faculty Induction Program**” at **TEQIP-IIT K**, 29th Jan to 2nd Feb’18
- ✚ **2017-** Participated in National Workshop on “**Emerging Trends in Digital World**”, Jamia Millia Islamia,

8th March '18

- ✚ 2017- Participated in International Workshop on “**Hybrid Soft Computing & Data Analytics**”, 10-11 January '17, South Asian University, New Delhi.
- ✚ 2012- Participated in Workshop in “**Linux Power Administrator**”, 11-12 October, RKGIT, Ghaziabad
- ✚ 2008- Participated in Zonal Level Workshop- “**Microcontrollers & Robotics**”, 3-4 May, AMU

ACADEMIC CREDENTIALS

- Teaching assistant for Microprocessor Lab during M. Tech in AMU.
- Teaching assistant for Microprocessor Lab, Linux Lab, DLD Lab in B. Tech during Ph.D. in JMI.
- Teaching assistant for Data Mining Lab in M.Tech.
- Taken Expert Lecture of C Language in final year of CSE & IT students in Integral University.
- Computer Skill: -
- Hadoop, Big Data, Tensorflow
- C, Java, Python, VHDL, BOSON, Netbeans, ModelSim, MATLAB, LATEX
- IOT Industrial Training- Axelta Systems (2016)
- Scheme- Functional Language.
- Assembly Level Programming on KIT (8085 PROGRAMMING)
- Micro-Controller Programming on KIT (16F877 PIC)

PUBLICATIONS

- ✚ Pradeep Kumar Singh, Esam Othman, **Rafeeq Ahmed**, et al, Optimized recommendations by user profiling using apriori algorithm, Applied Soft Computing, Volume 106, 2021, 107272, ISSN 1568-4946, <https://doi.org/10.1016/j.asoc.2021.107272> . **Paper indexed in Science Citation Index (SCI), Impact Factor 6.725)**
- ✚ **Rafeeq Ahmed** et al, Fuzzy Semantic Classification of Multi-Domain E-Learning Concept, Mobile Networks and Applications, (2021). <https://doi.org/10.1007/s11036-021-01776-8> **Paper indexed in Science Citation Index Expanded (SCIE), Impact Factor 3.426)**
- ✚ Singh, P.K. **Rafeeq Ahmed**, Rajput, I.S. et al. A Comparative Study on Prediction Approaches of Item-Based Collaborative Filtering in Neighborhood-Based Recommendations. Wireless Personal Communication (2021). <https://doi.org/10.1007/s11277-021-08662-2> **Paper indexed in Science Citation Index Expanded (SCIE), Impact Factor 1.671**
- ✚ A. Alhudhaif, M. Ahmad, A. Alkhayyat, N. Tsafack, A. K. Farhan and **Rafeeq Ahmed**, "Block Cipher Nonlinear Confusion Components Based on New 5-D Hyperchaotic System," in *IEEE Access*, vol. 9, pp. 87686-87696, 2021, DOI: [10.1109/ACCESS.2021.3090163](https://doi.org/10.1109/ACCESS.2021.3090163) **Paper indexed in Science Citation Index Expanded (SCIE), Impact Factor 3.367**
- ✚ **Rafeeq Ahmed**, Pradeep Kumar Singh and Tanvir Ahmad, “Novel Semantic Relatedness Computation for Multi-Domain Unstructured Data”, EAI Endorsed Transactions on Energy Web, June, 2020, <http://dx.doi.org/10.4108/eai.13-7-2018.165503> (*Scopus Indexed*)

- ✦ **Rafeeq Ahmed**, Tanvir Ahmad, "Fuzzy Cross Domain Concept Mining", International Journal of Innovative Technology and Exploring Engineering (IJITEE), ISSN: 2278-3075, Volume-8, Issue-10S, August 2019, (**Scopus indexed**)
- ✦ **Rafeeq Ahmed**, Nesar Ahmad, "Knowledge Representation by Concept Mining & Fuzzy Relation from Unstructured Data", International Journal of Research Review in Engineering Science and Technology, Volume-1, Issue-2, Pages 73-81, September-2012
- ✦ "Current status, requirements and challenges of Blockchain application in Land registry", IJIRR, Special Issue Submission: Next Generation Information Retrieval System: Innovation, Advancement and Issues. IGI Global. (**ESCI**) (Accepted)
- ✦ Aseem Srivastava, **Rafeeq Ahmed** et al, "A Hybrid Approach of Prediction using Rating and Review Data", IJIRR, Special Issue Submission: Next Generation Information Retrieval System: Innovation, Advancement and Issues, IGI Global. (**ESCI**) (Accepted)
- ✦ **Rafeeq Ahmed** and Tanvir Ahmad, "Fuzzy concept map generation from academic data sources", In Applications of Artificial Intelligence Techniques in Engineering, pages 415–424. Springer, 2019. [10.1007/978-981-13-1819-1_39](https://doi.org/10.1007/978-981-13-1819-1_39) (**Scopus Indexed**)
- ✦ Vineet Kumar Chauhan, Chandan Kumar, Awadhesh Kumar, Jitendra Nath Shrivastava and **Rafeeq Ahmed**, "Email Security: Threats and prevention", 3rd International Conference on Advance Computing and Software Engineering, ICACSE-2021, held at KNIT Sultanpur, 19-20 Feb'21. (Accepted)
- ✦ **Rafeeq Ahmad**, Tanvir Ahmad, B. L. Pal, and Sunil Malviya "Approaches for Semantic Relatedness Computation for Big Data", 2nd International Conference on Advance Computing and Software Engineering, ICACSE-2019, held at KNIT Sultanpur, 8-9 Feb'19, Available at SSRN 3349564 (2019)
- ✦ **Rafeeq Ahmad**, Mohd Asim, Safwan Zubair Khan, and Bharat Singh, "Green IoT—Issues and Challenges", 2nd International Conference on Advance Computing and Software Engineering, ICACSE-2019, held at KNIT Sultanpur, 8-9 Feb'19, Available at SSRN 3350317 (2019)
- ✦ Ravindra Kumar Chahar, S. V. A. V. Prasad, and **Rafeeq Ahmad**, "A Novel Application for Optimization Utility in Smart Grid using Machine Learning Technique", 2nd International Conference on Advance Computing and Software Engineering, ICACSE-2019, held at KNIT Sultanpur, 8-9 Feb'19, Available at SSRN 3350302 (2019)
- ✦ Bharat Singh, Kundan Kumar, Sudhir Mohan, and **Rafeeq Ahmad** "Ensemble of Clustering Approaches for Feature Selection of High Dimensional Data", 2nd International Conference on Advance Computing and Software Engineering, ICACSE-2019, held at KNIT Sultanpur, 8-9 Feb'19, Available at SSRN 3349018 (2019)
- ✦ Tanvir Ahmad, **Rafeeq Ahmad**, Sarah Masud and Farheen Nilofer, "Framework to Extract Context Vectors from Unstructured Data using Big Data Analytics" in 2016 9th International Conference on Contemporary Computing (IC3-2016), Noida, India, Pages 221-226, 11-13 August, 2016. **ISBN** 978-1-5090-3251-8, *DBLP, Scopus Indexed*
- ✦ Prerna Agarwal, **Rafeeq Ahmed**, Tanvir Ahmad, "Identification and ranking of key persons in a Social Networking Website using Hadoop& Big Data Analytics", International Conference on Advances in Information Communication Technology & Computing, Article No.65, 12–13 Aug'16, Bikaner, India, **ISBN**: 978-1-4503-4213-1

- + **Rafeeq Ahmed**, Mohammed A Qadeer, Musheer Ahmad, “Bandwidth Resource Allocation”, IEEE-2009, International Conference on Future Computer and Communication. Kuala Lumpur, Malaysia, 03-05 April, Pages – 344-348, ISBN: 978-0-7695-3591-3

Communicated Papers (1):

- + Mohammed Shuaib, Shadab Alam, Wazir Zada Khan, **Rafeeq Ahmed**, Ali Kashif Bashir, Mohammad Hammoudeh, Yousaf Bin Zikria, “Blockchain-based Identity Management Systems: A Survey”, **ACM Transactions on Internet Technology**.

LANGUAGES KNOWN

- English, Hindi & Urdu.

PERSONAL DETAILS

Father’s Name : Mr. Ashfaque Ahmed (Government Advocate, Retd)
Date of Birth : 02-07-1989
Nationality : Indian
Marital Status : Married
Permanent Address : Ahmad Nagar, Sugar Mill Crossing, Gorakhpur Road, Deoria, UP-274001

UNDERTAKING

All the information given above by me is true and accurate to best of my knowledge and belief.



Date: 21-08-2021

Place: Sultanpur, UP

**Signature
(Rafeeq Ahmed)**