Curriculum Vitae

SHEIKH UMAR MUSHTAQ

Senior Research Fellow
Computer Application
Current Occupation: Lecturer GDC Anantnag, J and K (Cont)

Address: Dhingra Apartment, Lawgate, Phagwara, Punjab (144401)
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Carier Objective:

- To utilize and learn teaching, technical and personal skills in professionally managed educational organization where I can get exposure to a wide variety of professional problems which help to bring out my true teaching potential and fulfill my responsibilities.
- To carry on my research goals with the professional institute.

Notice Period

- Immediate joiner

Professional and Academic Qualification

- **PhD, Computer Applications** Scholar at Lovely Professional University, Phagwara, Jalandhar, Punjab, India – Submitted Thesis - September 2024 (Waiting for Final Viva)
- **Thesis Title "A Fault-tolerant Hybrid Resource Provisioning Model for Cloud Computing"**
- **Masters in Computer Applications** from University of Kashmir, J & K, India.
- **Bachelor of Computer Application** from University of Kashmir.

Subjects

- OPERATING SYSTEM, COMPUTER NETWORKING, DATA STRUCTURE AND ALGORITHM, AUTOMATA (THEORY OF COMPUTATION), DBMS.

National Exams Qualified

- QUALIFIED **UGC NET** (DEC 2020 AND JUNE 2021)

Research Fellowship Awarded

- **Junior Research Fellowship (JRF, FEB 2022) and Senior Research Fellowship (SRF, FEB 2024)** under UGC, NET, MANF Scheme.

Scopus Publications

- Mushtaq, Sheikh Umar, Sophiya Sheikh, and Sheikh Mohammad Idrees. "Next-Gen Cloud Efficiency: Fault-Tolerant Task Scheduling with Neighboring Reservations for Improved Cloud Resource Utilization." *IEEE Access* (2024). *(SCI, Impact Factor: 3.9, Q1)*
- Malla PA, Sheikh S, Shahid M, Mushtaq SU. Energy-efficient sender-initiated threshold-based load balancing (e-STLB) in cloud computing environment. Concurrency and Computation: Practice and Experience. 2024 Feb 29;36(5):e7943. *(SCI, Impact Factor: 2, Q2)*

- Paper published in Peer-to-Peer Networking and Application "In-Depth Analysis of Fault Tolerant Approaches Integrated with Load Balancing and Task Scheduling" *(SCI, Impact Factor: 3.5, Q2)*
- Mushtaq, Sheikh Umar, Sophiya Sheikh, and Ajay Nain. "The Response Rank based Fault-tolerant Task Scheduling for Cloud System." *2023 1st International Conference on Advanced Informatics and Intelligent Information Systems (ICAI3S 2023)*. Atlantis Press, 2024.
- Mushtaq, Sheikh Umar, and Sophiya Sheikh. "A fault-tolerant resource reservation model in cloud computing." *Recent Advances in Computing Sciences*. CRC Press, 2023. 295-301.
- Nain A, Sheikh S, Malik R, Mushtaq SU. Hybrid Metaheuristic Based Resource Allocation Approach in SDN-Based Edge Computing Environment. In 2023 2nd International Conference on Futuristic Technologies (INCOFT) 2023 Nov 24 (pp. 1-5). IEEE.

Book Chapters

- Mushtaq, Sheikh Umar, and Sophiya Sheikh. "A fault-tolerant resource reservation model in cloud computing." *Recent Advances in Computing Sciences*. CRC Press, 2023. 295-301

Teaching Experience

- One Year teaching experience as Computer Instructor at Govt Girls Higher Secondary School, Sagam, Anantnag, J & K.
- Eight Months teaching experience as Teaching Assistant at higher education in School of Computer Applications. LPU, Jalandhar, Punjab

Research Papers Presented in International Conferences

- Presented a research paper titled "A fault-tolerant resource reservation model in cloud computing", Ist International conference on Recent Advances in Computing Sciences (RACS-2022) (4th – 5th Nov 2022), organised by School of Computer Application at Lovely Professional University, Punjab.
- Presented a research paper titled "A Novel Cluster based Fault-tolerant Scheduling Approach in Cloud Environment", 1st International conference on Futuristic Computation Technique: Approaches, Implementations and Applications (ICFCT-2022) (16th – 17th Dec 2022), organised by Panipat Institute of Engineering and Technology, Haryana.
- Presented a research paper titled "The Response Rank based Fault-tolerant Task Scheduling for Cloud System" ,1st International Conference on Advanced Informatics and Intelligent Information Systems (ICAI3S 2023) (29th – 30th Nov 2023) Organised by Department of Informatic UPN "Veteran" Yogyakarta, Indonesia

Best Awards

- Best presenter award International Conference on Advanced Informatics and Intelligent Information Systems (ICAI3S 2023) (29th – 30th Nov 2023) that carries the theme of "Leveraging Intelligent Information System and Advanced Informatics in Empowering Society 5.0" with paper entitled "The Response Rank based Fault-tolerant Task Scheduling for Cloud System" Organised by Department of Informatic UPN "Veteran" Yogyakarta, Indonesia

Patent Publications

- Published Patent entitled "**Novel Neighbouring and Reservation based fault tolerant Dynamic Scheduling in Cloud Environments**"
- Published Patent entitled "**QoS aware Clustered Task Scheduling for Cloud environment**"
- Published Patent entitled "**An Efficient Load-Balancing System for Optimizing QoS in Cloud Computing Environments**"

Copyrights

- Copyright entitled "**An analysis of Scheduling techniques with Fault tolerance and load balancing in Cloud computing**

Workshops / Seminars / Conferences Attended

- Participated in International conference titled "1st International conference on Recent Advances in Computing Sciences (RACS-2022) (4th – 5th Nov 2022), organised by School of Computer Application at Lovely Professional University, Punjab.
- Participated in 1st International conference on Futuristic Computation Technique: Approaches, Implementations and Applications (ICFCT-2022) (16th – 17th Dec 2022), organised by Panipat Institute of Engineering and Technology, Haryana.
- Participated in 1st International Conference on Advanced Informatics and Intelligent Information Systems (ICAI3S 2023) (29th – 30th Nov 2023) Organised by Department of Informatic UPN "Veteran" Yogyakarta, Indonesia.
- Participated in International Workshop on Article Publication in Reputable Journals held on 4th April, 2024 organised by Maryam Abacha American University of Nigeria.
- Participated in 2nd International Conference on Futuristic Technologies (INCOFT-2023) held on 24th – 25th Nov 2023, Organised at Belagavi, Karnataka, India.

Faculty Development Programs Attended

- Participated in International workshop on "**Article Publication in Reputable Journals**" on 4th April, 2024 organised by Maryam Abacha American University of Nigeria.
- Participated in "**International Faculty Development Program on Innovative Pedagogy Tools and Techniques for Effective Teaching and Learning**" on 16th May, 2024 organised by Maryam Abacha American University of Nigeria.
- Participated in International Workshop on "**Research Informatics: A Module of Research Methodology**" on 09 September 2024.

Personal Details

Name	: SHEIKH UMAR MUSHTAQ.
Father's Name	: MUSHTAQ AHMAD SHEIKH.
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Permanent address	: WANIHAMA, DIALGAM ANANTNAG, KASHMIR, Pin - 192210
Nationality	: INDIAN

(Sheikh Umar Mushtaq)