

TAWSEEF AHMED TELI

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PROFILE

I am presently working as an Assistant Professor in the Department of Applications at the Higher Education Department, Govt. of J&K, India. With a teaching experience of 7+ years, I intend to excel both at teaching and research. My research interests are machine learning, deep learning, autonomous robots, fuzzy systems, network security, encryption & cryptography, IoT, and blockchain.

INTERESTS

- Machine Learning
- Robotics
- Blockchain
- IoT
- Cryptography

SKILL

- Python
- Matlab
- R
- C/C++
- Java

EDUCATION

PHD

University of Kashmir
2014 - 2019

MASTERS

University of Kashmir
Silver Medalist
2011 - 2014

EXPERIENCE

ASSISTANT PROFESSOR

Department of Higher Education, Govt of J&K, India

2016 - Present

- Apart from teaching and co-supervising, I have continuously been involved in research-oriented tasks and projects including Arduino based Li-Fi, Autonomous robot path planning, Machine Learning, Expert Systems for Healthcare and other applications etc. I have also received funding from DST, a government agency for a research project on 'A Fuzzy GRA/AHP based Comprehensive Analysis of Opportunities, Challenges and Implementation of IoT with an Indian Perspective'

RESEARCH GOAL

- My primary research interest is Artificial Intelligence. Specifically, I am interested in machine learning and computer vision which encompasses many application areas like data sciences and robotics etc. I am inclined toward the problems related to probabilistic modelling, machine learning and data mining, and their interdisciplinary applications to biomedical sciences and bioinformatics. I have also worked on the security and application of blockchain and its integration into IoT based systems.

PUBLICATIONS

- Teli, Tawseef Ahmed, & Wani, M. A. (2021). A fuzzy based local minima avoidance path planning in autonomous robots. *International Journal of Information Technology*, 13(1), 33–40.
- Ahmed Teli, T., Masoodi, F., & Yousuf, R. (2020). *Security concerns and privacy preservation in blockchain based IoT systems: opportunities and challenges*.
- Yousuf, R., Jeelani, Z., Khan, D. A., Bhat, O., & Teli, T. A. (2021). Consensus algorithms in blockchain-based cryptocurrencies. *2021 International Conference on Advances in Electrical, Computing, Communication and Sustainable Technologies (ICAECT)*, 1–6. IEEE.
- Masoodi, F., & Others. (2021). Machine learning for classification analysis of intrusion detection on NSL-KDD dataset. *Turkish Journal of Computer and Mathematics Education (TURCOMAT)*, 12(10), 2286–2293.
- Teli, Tawseef Ahmed, Masoodi, F. S., & Bahmdi, A. M. (2021). HIBE: Hierarchical identity-based encryption. In *Functional Encryption* (pp. 187–203). Springer International Publishing Cham.
- Teli, Tawseef Ahmed. (2022). Ensuring Secure Data Sharing in IoT Domains Using Blockchain. In *CYBER SECURITY AND DIGITAL FORENSICS* (pp. 205–219). scrivener publishing with wiley.
- Shafi, O., Sidiq, S. J., Teli, T. A., & Zaman, M. (2021). *A Comparative Study on Various Data Mining Techniques for Early Prediction of Diabetes Mellitus*.
- Shafi, O., Sidiq, J. S., Teli, T. A., & Others. (2022). Effect of pre-processing techniques in predicting diabetes mellitus with focus on artificial neural network. *Advances and Applications in Mathematical Sciences*, 21(8), 4761–4770.
- Teli, Tawseef Ahmed, & Wani, M. A. (n.d.). Path Planning in Autonomous Mobile Robots. *Computing for Sustainable Global Development (INDIACom)*, 2017 4th International Conference On, 7080–7087.
- Jabbari, A., Teli, T. A., Masoodi, F., Reegu, F. A., Uddin, M., & Albakri, A. (2024). Prioritizing factors for the adoption of IoT-based smart irrigation in Saudi Arabia: a GRA/AHP approach. *Frontiers in Agronomy*, 6, 1335443.

- Teli, Tawseef Ahmed, & Wani, A. (2018). Fuzzy Logic And Medicine With Focus On Cardiovascular Disease Diagnosis. 5th International Conference on Computing for Sustainable Global Development.
- Ahmed Teli, T., & Masoodi, F. (2021). Blockchain in healthcare: Challenges and opportunities. Proceedings of the International Conference on IoT Based Control Networks & Intelligent Systems-ICICNIS.
- Zargar, O. S., Baghat, A., & Teli, T. A. (2022). A DNN Model for Diabetes Mellitus Prediction on PIMA Dataset. INFOCOMP Journal of Computer Science, 21(2).
- Teli, Tawseef Ahmed, & Yousuf, R. (2023). Deep Learning for Bioinformatics. In Applications of Machine Learning and Deep Learning on Biological Data (pp. 181–196). Auerbach Publications.
- Teli, Tawseef Ahmed, Masoodi, F. S., & Masoodi, Z. (2023). Application of ML and DL on Biological Data. In Applications of Machine Learning and Deep Learning on Biological Data (pp. 159–180). Auerbach Publications.
- Teli, Tawseef Ahmed, & Masoodi, F. S. (2023). IoT implementation in India: A complex decision process using GRA/AHP. 2023 10th International Conference on Computing for Sustainable Global Development (INDIACom), 773–778. IEEE.
- Zargar, O. S., Bhagat, A., & Teli, T. A. (2023). Feature Selection, Importance and Missing Value Imputation in Diabetes Mellitus Prediction. 2023 10th International Conference on Computing for Sustainable Global Development (INDIACom), 914–919. IEEE.
- Sofi, M. A., Singh, D., & Teli, T. A. (2023a). Attention-based Conditional VAE for Lung Cancer Drug Generation. 2023 10th International Conference on Computing for Sustainable Global Development (INDIACom), 924–928. IEEE.
- Malla, P. A., Sheikh, S., & Teli, T. A. (2023a). A Polymorphous Energy Efficient Resource Allocation Approach (PEERA) in Cloud Computing. 2023 10th International Conference on Computing for Sustainable Global Development (INDIACom), 920–923. IEEE.
- Teli, Tawseef Ahmad, Yousuf, R., & Khan, D. A. (2022). MANET Routing Protocols Attacks and Mitigation Techniques: A Review. International Journal of Mechanical Engineering, 7(2), 1468–1478.
- Mushtaq, S., Roy, A., & Teli, T. A. (2021). A comparative study on various machine learning techniques for brain tumor detection using MRI. Proc. of the Global Emerging Innovation Summit (GEIS-2021), 125–137.
- Sidiq, S. J., Shafi, O., Zaman, M., & Teli, T. A. (2022). Big Data and deep learning in healthcare. In Applications of Artificial Intelligence, Big Data and Internet of Things in Sustainable Development (pp. 145–160). CRC Press.

- Shafi, O., Baghat, A., & Teli, T. A. (2023). A robust DNN-based model for diabetes mellitus. In Recent Advances in Computing Sciences (pp. 191–195). CRC Press.
- Malla, P. A., Sheikh, S., & Teli, T. A. (2023b). In-depth analysis of key task scheduling algorithms and inception of real-time EPSO-BAT model. In Recent Advances in Computing Sciences (pp. 147–151). CRC Press.
- Sofi, M. A., Singh, D., & Teli, T. A. (2023b). Convolutional autoencoders-based model for De-novo breast anticancer drug development. In Recent Advances in Computing Sciences (pp. 28–32). CRC Press.
- Teli, Tawseef Ahmed, Bamhdi, A. M., Masoodi, F. S., & Akhter, V. (2023). Software Security. In System Reliability and Security (pp. 219–229). Auerbach Publications.
- Teli, Tawseef Ahmed, Bhat, M. Q., & Zain, H. (2023). Deepfakes: benefits, threats, and combat strategies. In Recent Advances in Computing Sciences (pp. 7–12). CRC Press.
- Zargar, O. S., Bhagat, A., Teli, T. A., & Sheikh, S. (n.d.). EARLY PREDICTION OF DIABETES MELLITUS ON PIMA DATASET USING ML AND DL TECHNIQUES. Journal of Army Engineering University of PLA ISSN, 2097, 0730.
- Sofi, M. A., Singh, D., & Teli, T. A. (n.d.). AN INTELLIGENT APPROACH FOR DE-NOVO DRUG DISCOVERY: A SYSTEMATIC REVIEW. Journal of Army Engineering University of PLA ISSN, 2097, 0730.

MORE QUALIFICATION

- JKSET - 2013
- UGC NET - 2014
- UGC JRF - 2014

EXPERIENCE

- 7+ years of teaching experience in Higher Education.

ONGOING RESEARCH PROJECT

- JK DEPARTMENT OF SCIENCE AND TECHNOLOGY

“A Fuzzy GRA/AHP based Comprehensive Analysis of Opportunities, Challenges and Implementation of IoT with an Indian Perspective”

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