Faculty Profile

Name: **Abhishek**

Designation: Faculty Associate

Email ID: abhishek@ifheindia.org

Teaching areas: Machine learning, Deep learning, Internet of Things, Programming practices, Computer networks

Research interests: Machine learning, Deep learning, Semi-supervised learning, Fairness Accuracy and Transparency in ML, Graph Convolution Networks, Wireless sensor networks, Vehicular ad-hoc networks

Education:

- Ph. D. (IT-Manifold Regularization on Graphs) from Indian Institute of Information Technology-Allahabad, October 2020 (Thesis submitted)
- M. Tech. (IT-Wireless Communication and Computing) from Indian Institute of Information Technology-Allahabad, August 2013
- B.E. (Computer) from Pune Institute of Computer Technology (University of Pune), August 2009
- Diploma (Computer Engineering) Maharashtra State Board of Technical Education, June 2005

Professional Experience: [5 years]

- January 2021-Ongoing: Faculty Associate (CSE-FST) at IcfaiTech, Hyderabad.
- July 2020-December 2020: Teaching Research Assistant (IT) at IIIT-Allahabad, Prayagraj.
- August 2013-April 2016: Application Developer (Java/J2EE) at IBM India Pvt. Ltd.
- October 2009-June 2010: Quality Assurance Engineer at BMC Softwares, Pune.

Research / Selected Publications:

- Abhishek, and Shekhar Verma. "Graph laplacian regularization with procrustes analysis for sensor node localization." IEEE Sensors Journal 17, no. 16 (2017): 5367-5376.
- Abhishek, and Shekhar Verma. "Optimal manifold neighborhood and kernel width for robust non-linear dimensionality reduction." Knowledge-Based Systems 185 (2019): 104953.
- Rakesh Yadav, Abhishek, Shekhar Verma, and S. Venkatesan. "Regularization on a rapidly varying manifold." International Journal of Machine Learning and Cybernetics (2020): 1-20.
- Adarsh Prasad Behera, Abhishek, Shekhar Verma, and Manish Kumar. "Manifold Learning With Localized Procrustes Analysis Based WSN Localization." IEEE Sensors Letters (2020).
- Rakesh Kumar Yadav, Manikanta Moghili, Abhishek, and Shekhar Verma. "Ensemble based Graph Convolutional Network for Semi supervised learning." In 5th International Conference on Computer Vision and Image Processing (CVIP), 2020.
- Prashant Shukla, Abhishek and Shekhar Verma. "A compact fuzzy rule interpretation of SVM classifier for medical whole slide images." In TENCON 2017-2017 IEEE Region 10 Conference, pp. 1588-1592. IEEE, 2017.
- Abhishek and Shekhar Verma. "Machine Learning in 5G Wireless Networks." In 5G and Beyond Wireless Systems, pp. 391-410. Springer, Singapore.