

## *Personal Information*

Name	Mr. Mukhtar Ahmad Sofi
Email Id	sofimukhtar@bvrithyderabad.edu.in
Areas of Specialization	Deep Learning, Computational Biology and Bioinformatics



## *Educational Qualifications*

Doctoral Degree	Ph.D. (Computer Science & Engineering) University of Kashmir
PG Degree	M.Tech. (CSE)
PG Degree	MCA
UG Degree	BCA

## *Papers Published*

### *International Journal Publications*

1. Sofi, Mukhtar Ahmad, and M. Arif Wani. "RiRPSSP: A Unified Deep Learning method for Prediction of Regular and Irregular Protein Secondary Structures." **Journal of Bioinformatics and Computational Biology** Vol. 21, No. 1 (2023) 2350001 (25 pages) World Scientific Publishing Europe Ltd. (SCOPUS, Web of Science) <https://doi.org/10.1142/S0219720023500014> .
2. Sofi, Mukhtar Ahmad, and M. Arif Wani. "Protein secondary structure prediction using data-partitioning combined with stacked convolutional neural networks and bidirectional gated recurrent units." **International Journal of Information Technology** 14, no. 5 - SPRINGER (2022): 2285-2295 (SCOPUS). <https://doi.org/10.1007/s41870-022-00978-x>
3. Sofi, Mukhtar Ahmad. "Bluetooth Protocol in Internet of Things (IoT), Security Challenges and a Comparison with Wi-Fi Protocol: A Review." *International Journal of Engineering and Technical Research* 5 (2016).
4. Sofi, Mukhtar Ahmad, and M. Nandhini. "Towards Building smart toll tax collection system using Bluetooth LE Advertising." *International Journal of Advanced Research in Computer Science* 8.1 (2017).

### *International Conference Publications*

1. Sofi, M. A., & ArifWani, M. (2021, March). Improving prediction of amyloid proteins using secondary structure based alignments and Segmented-PSSM. In 2021 8th international conference on computing for sustainable global development (INDIACom) (pp. 87-92). IEEE. <https://doi.org/10.1109/INDIACom51348.2021.00017>
2. Sofi, M. A., & Wani, M. A. (2022, March). Improving Prediction of Protein Secondary Structures using Attention-enhanced Deep Neural Networks. In 2022 9th International Conference on Computing for Sustainable Global Development (INDIACom) (pp. 664-668). IEEE. <https://doi.org/10.23919/INDIACom54597.2022.9763114>

### ***Awards:***

- Awarded Junior Research Fellowship by UGC (2018)
- Awarded Senior Research Fellowship by UGC (2020)

### ***Certifications***

- Qualified UGC-NET 2018 in Computer Science
- Qualified JK-SET 2018 in Computer Science
- Qualified GATE 2016 in Computer Science
- One year Certificate Course in Foreign languages (FRENCH) from Pondicherry University in 2014
- Certificate Course in Machine Learning and its Applications from NPTEL
- Six months Certificate course in Environmental informatics and Spatial modelling using GIS from Pondicherry University.

### ***Any Other Achievements***

- Trainer for “Hands on training on Docker Installation and using optimized deep learning libraries of NVIDIA” in University of Kashmir, organised by NVIDIA for DGX A100 Server.
- Presented a paper on ‘Deep learning approaches for Protein structure prediction’ in 20th IEEE International Conference on Machine Learning and Applications. December 13-15, 2021, Pasadena, CA, USA..