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## EDUCATION

- PhD, Computer Science & Engineering, Jaypee University of Information Technology, Solan, India, 2014
- M. Tech., Computer Science, College of Engineering, Pune, India, 2010
- B. Tech, Computer Science and Technology, Institute of Technology for Women, Mumbai, India, 2003

## PROFESSIONAL EXPERIENCE

- Research Scientist, Institute for Transportation, Iowa State University (ISU), 2023–present
- Senior Applied Scientist, accret.ai, 2022-2023
- Professor, Department of Computer Science and Engineering, SRM Institute of Science and Technology, Chennai. 2019–2022
- Associate Professor and Head of the Department, GH Rasoni College of Engineering, India, 2018-19
- Associate Professor and Head of the Department, Vidyalankar Institute of Technology, India, 2017-18
- Associate Professor and Head of the Department, Shree Rayeshwar Institute of Engineering & Technology, India, 2016-2017
- Associate Professor and Head of the Department, Baba Farid College of Engineering and Technology-Bathinda, India, 2014-2016
- Assistant Professor/ Lecturer, Department of Computer Engineering, JUIT, Solan, India, 2009–2014.
- Assistant Professor/ Lecturer, Department of Computer Engineering, MIT, Pune, India, 2008–2009.

## SELECTED RESEARCH PROJECTS

- “Parallelizing DWT using CUDA.” NVIDIA ,2010.
- “NVIDIA Jetson Nano Lab setup” NVIDIA in 2021-22, 2022-23
- “Diabetes Mellitus Prediction, Type Classification and Probability detection using Machine Learning Concepts and Techniques.”, IFERP Innovative Project Seed Funding Scheme

## SELECTED PUBLICATIONS

- Naphade, M., Wang, S., Anastasiu, D.C., Tang, Z., Chang, M.C., Yao, Y., Zheng, L., Rahman, **M.S., Arya**, M.S., Sharma, A. and Feng, Q., 2023. The 7th AI City Challenge. In *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition* (pp. 5537-5547).

- Ahamed, B.S., **Arya, M.S.** and Nancy V, A.O., 2022. Prediction of type-2 diabetes mellitus disease using machine learning classifiers and techniques. *Frontiers in Computer Science*, 4, p.835242.
- Nancy, V.A.O., **Arya, M.S.** and Nitin, N., 2022, March. Impact of data augmentation on skin lesion classification using deep learning. In *2022 5th International Conference on Information and Computer Technologies (ICICT)* (pp. 67-72). IEEE.
- **Arya, M.S.**, Devi, S.P. (2021). Prediction to Service Delivery: AI in Action. In: Santosh, K., Joshi, A. (eds) COVID-19: Prediction, Decision-Making, and its Impacts. Lecture Notes on Data Engineering and Communications Technologies, vol 60. Springer, Singapore.
- Sharma, R., Agarwal, V., Sharma, S. and **Arya, M.S.**, 2021. An LSTM-based fake news detection system using word embeddings-based feature extraction. In *ICT Analysis and Applications: Proceedings of ICT4SD 2020, Volume 2* (pp. 247-255). Springer Singapore.
- **Arya, M.** and Siddavatam, R., 2011, April. A novel biometric watermarking approach using LWT-SVD. In *International Conference on Advances in Information Technology and Mobile Communication* (pp. 123-131). Berlin, Heidelberg: Springer Berlin Heidelberg.
- Arya, M.S., Jain, N., Sisodia, J. and Sehgal, N., 2011, November. DNA encoding based feature extraction for biometric watermarking. In *2011 International Conference on Image Information Processing* (pp. 1-6). IEEE.
- Ahamed, B.S., Arya, M.S., Sangeetha, S.K.B. and Auxilia Osvin, N.V., 2022. Diabetes Mellitus Disease Prediction and Type Classification Involving Predictive Modeling Using Machine Learning Techniques and Classifiers. *Applied Computational Intelligence and Soft Computing*, 2022.
- Arya, M.S., Manjare, A., Naik, P. and Sheikh, K.H., 2020. A green computing technique for reducing energy consumption for desktops using proxy downloading. In *Information and Communication Technology for Sustainable Development: Proceedings of ICT4SD 2018* (pp. 823-831). Springer Singapore.
- Arya, M.S. and Jain, P., 2018. Fifth-Level Second-Generation Wavelet-Based Image Fusion Algorithm for Visual Quality Enhancement of Digital Image Data. In *Information and Communication Technology: Proceedings of ICICT 2016* (pp. 139-149). Springer Singapore.
- Goyal, Yashi, **Meenakshi S. Arya**, and Sunil Nagpal. "Energy efficient hybrid policy in green cloud computing." In *2015 International Conference on Green Computing and Internet of Things (ICGCIOT)*, pp. 1065-1069. IEEE, 2015.
- Arya, M.S. and Siddavatam, R., 2013. Geometric robust multimodal biometric watermarking scheme for copyright protection of digital images. *International Journal of Computer Applications*, 72(9), pp.40-52.
- **Arya, M.S.**, Siddavatam, R. and Ghrera, S.P., 2011, May. A hybrid semi-blind digital image watermarking technique using lifting wavelet transform—Singular value decomposition. In *2011 IEEE INTERNATIONAL CONFERENCE ON ELECTRO/INFORMATION TECHNOLOGY* (pp. 1-6). IEEE.

#### PROFESSIONAL AFFILIATIONS, HONORS, AND SERVICE

- Fellow IETE.
- Senior Member IEEE.
- Lifetime Member ISTE.