**Faculty Profile Template**

1. **Basic Information**

* **Name**: Dr. Apurv Verma
* **Designation**: Assistant Professor
* **Department/School**: Computer Science and Engineering
* **Institution Name**: Shri Shankaracharya Institute of Professional Management and Technology, Raipur
* **Email ID**: Apurv.verma@ssipmt.com
* **Contact Number**: 9770092920
* **Photograph**: *(Passport-size, professional)*

1. **Educational Qualifications**

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| **Degree** | **Specialization** | **Institution** | **Year of Completion** |
| UG | Computer Science and Engineering | CSVTU, Bhilai | 2012 |
| PG | Computer Science and Engineering | MATS University, Raipur | 2016 |
| Ph.D. | Computer Science and Engineering | MATS University, Raipur | 2023 |
| Others | *(if applicable)* |  |  |

1. **Teaching & Research Experience**

* **Total Teaching Experience**: 08
* **Industry Experience**: *(if any) NA*
* **Research Experience**: 08

1. **Courses Taught**

* Computer System Architecture
* Data Structures
* Theory of Computation
* Cryptography and Network Security

1. **Research Interests / Specialization**

* Machine Learning
* Healthcare

1. **Publications (Last 5 Years)**

* Journals (APA/IEEE format)

William, P., Ayasrah, F. T. M., Hajiyeva, R. J., Lakshmi, G. P., Roy, D. K., & Verma, A. (2024). AI-based digital education policy and regulation: Navigating the legal landscape. Library Progress International, 44(3), 5553–5563.

Ashrafi, M. M., Verma, A., & Badholia, A. (2020). A review on underwater image enhancement. International Journal of Scientific Research in Science, Engineering and Technology, 7(3), 1–6. https://doi.org/10.32628/IJSRSET207313

Ashrafi, M. M., Verma, A., & Badholia, A. (2020). A novel approach for underwater image enhancement using pretrained neural network denoising and fusion technique. Mukt Shabd Journal, 9(6), 878.

Verma, A., Verma, V., & Patel, B. (2022). Impact of features on the prediction accuracy of human activity recognition. Samriddhi – A Journal of Physical Sciences, Engineering and Technology, 14(3).

Verma, A., & Sharma, A. (2025). An innovative AI-integrated approach for identifying the tensile robustness of polymeric materials. Journal of Polymer & Composites, 13(1), 90–97.

Sarad, A., Verma, A., & Badholia, A. (2020). An approach providing congestion control & avoidance using priority-based energy efficient mechanism for Internet of Things (IoT). International Journal on Emerging Technologies, 11(2), 1013–1025.

Verma, A. (2020). Analysis of feature correlation and feature subset on human activity recognition. Ilkogretim Online - Elementary Education Online, 19(4), 4743–4754.

Verma, A., & Sharma, A. (2020). Human activity recognition by optimizing neural network with stochastic gradient descent on sensor data. International Journal of Advanced Science and Technology, 29(8), 6313–6323.

* Conference Proceedings

Barde, S., Verma, V., & Verma, A. (2023). A case-based approach in astrological prediction of profession government officer or celebrity using machine learning. In Z. Hu, I. Dychka, & M. He (Eds.), Advances in Computer Science for Engineering and Education VI (Lecture Notes on Data Engineering and Communications Technologies, Vol. 181, pp. 759–773). Springer. https://doi.org/10.1007/978-3-031-36118-0\_67

Bhangale, S. C., Roy, D. K., Varade, H. P., William, P., Thorat, S. R., & Verma, A. (2023). Air quality hotspot monitoring with trajectories of IoT in smart city implementation. In 2023 3rd International Conference on Pervasive Computing and Social Networking (ICPCSN) (pp. 1274–1279). IEEE. https://doi.org/10.1109/ICPCSN58827.2023.00214

Verma, A., Verma, V., & Yadav, K. P. (2023). Experimental investigation of impact of features on the prediction accuracy of human activity recognition. In 2023 4th International Conference on Computation, Automation and Knowledge Management (ICCAKM) (pp. 1–6). IEEE. https://doi.org/10.1109/ICCAKM58659.2023.10449521

Conference Publishing Services. (2023). Certificate of presentation: Air quality hotspot monitoring with trajectories of IoT in smart city implementation [Conference certificate]. 3rd International Conference on Pervasive Computing and Social Networking (ICPCSN), Narasu’s Sarathy Institute of Technology, Salem, India, June 19–20, 2023.

Verma, A., Verma, V., & Yadav, K. P. (2023). Experimental investigation of impact of features on the prediction accuracy of human activity recognition. In 2023 4th International Conference on Computation, Automation and Knowledge Management (ICCAKM) (pp. 1–6). IEEE. https://doi.org/10.1109/ICCAKM58659.2023.10449521

Verma, A., Verma, V., & Patel, B. (2022). Human activity recognition using smartphone dataset: A review. In Proceedings of the International Conference on Edge Computing and Applications (ICECAA 2022) (pp. 1467-1472). IEEE. https://doi.org/10.1109/ICECAA55415.2022.9936150

William, P., Choubey, S., Ramkumar, M., Verma, A., Vengatesan, K., & Choubey, A. (2022). Implementation of 5G network architecture with interoperability in heterogeneous wireless environment using radio spectrum. In Proceedings of the International Conference on Electronics and Renewable Systems (ICEARS 2022) (pp. 786-791). IEEE. https://doi.org/10.1109/ICEARS53579.2022.9752267

Uraon, P. K., Verma, A., & Badholia, A. (2022). Steel sheet defect detection using feature pyramid network and RESNET. In Proceedings of the International Conference on Edge Computing and Applications (ICECAA 2022) (pp. 1543-1550). IEEE. https://doi.org/10.1109/ICECAA55415.2022.9936318

Bhowmik, T., Choudhury, A., Sharma, A., Verma, A., Kanthalia, B., & Roy, B. (2022). A comparative study on native and non-native English accent classifications. In Proceedings of the 2022 International Conference on Futuristic Technologies (INCOFT) (pp. 1-6). IEEE. https://doi.org/10.1109/INCOFT55651.2022.10094428

William, P., Gondkar, S. S., Gupta, A., Verma, A., Darwante, N. K., & Verma, V. (2022). Applications of Internet of Things in smart grid intelligent systems. In Proceedings of the International Conference on Augmented Intelligence and Sustainable Systems (ICAISS 2022) (pp. 1175-1179). IEEE. https://doi.org/10.1109/ICAISS55157.2022.10011092

Shroff, A., Barde, S., & Verma, A. (2021). Improve the learning capability of students at university level by using gamification. In Proceedings of the IEEE International Conference on Technology, Research and Innovation for Betterment of Society (TRIBES). IEEE.

Verma, A., & Sharma, A. (2021). Investigating standardized value for human activity recognition in machine learning. In Proceedings of the Fifth International Conference on Trends in Electronics and Informatics (ICOEI). IEEE.

Gupta, A., Garg, M., Kaushik, D., & Verma, A. (2020). Machine learning model for breast cancer prediction. In Proceedings of the Fourth International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud). IEEE.

* Book Chapters / Books Authored

Gupta, A., Verma, A., & Pramanik, S. (2022). Advanced security system in video surveillance for COVID-19. In An Interdisciplinary Approach to Modern Network Security (1st ed., pp. 21). CRC Press. https://doi.org/10.1201/9781003147176-8

William, P., Tidake, V. M., Thorat, S. R., & Verma, A. (2023). Future of Digital Work Force in Robotic Process Automation. In R. Rawat, R. K. Chakrawarti, S. K. Sarangi, R. Choudhary, A. S. Gadwal, & V. Bhardwaj (Eds.), Robotic Process Automation (Chapter 20). Wiley. https://doi.org/10.1002/9781394166954.ch20

William, P., Badholia, A., Verma, V., Sharma, A., & Verma, A. (2022). Analysis of Data Aggregation and Clustering Protocol in Wireless Sensor Networks Using Machine Learning. In V. Suma, X. Fernando, K.-L. Du, & H. Wang (Eds.), Evolutionary Computing and Mobile Sustainable Networks (Lecture Notes on Data Engineering and Communications Technologies, 116) (pp. 925–937). Springer. https://doi.org/10.1007/978-981-16-9605-3\_65

William, P., Choubey, S., Choubey, A., & Verma, A. (2022). Darknet Traffic Analysis and Network Management for Malicious Intent Detection by Neural Network Frameworks. In Darknet Traffic Analysis and Network Management for Malicious Intent Detection by Neural Network Frameworks (pp. 1–19). IGI Global. https://doi.org/10.4018/978-1-6684-6444-1.ch001

William, P., Darwante, N. K., Pawar, A. B., Jawale, M. A., & Verma, A. (2023). Framework for Implementation of Smart Driver Assistance System Using Augmented Reality. In N. Marriwala, C. C. Tripathi, S. Jain, & D. Kumar (Eds.), Mobile Radio Communications and 5G Networks (Lecture Notes in Networks and Systems, 588) (pp. 365–374). Springer. https://doi.org/10.1007/978-981-19-7982-8\_30

1. **Research Guidance**

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| **Level** | **Awarded** | **Ongoing** |
| Ph.D. | NA | NA |
| PG | NA | NA |

1. **Awards & Recognitions**

* Institutional / National / International

1. **Administrative Roles**

* Positions held (e.g., HoD, IQAC Coordinator, NAAC/NBA Committee Member)

1. **Professional Memberships**

* Institute of Engineers (India) – Life Member
* Computer Society of India – Life Member
* ISTE Life Member

1. **Web Presence**

* Google Scholar: https://scholar.google.com/citations?user=FtcOEEcAAAAJ&hl=en
* ORCID ID: https://orcid.org/my-orcid?orcid=0000-0002-1009-7032