

**Dr. ARVIND KUMAR TIWARI****DOB 14/03/1980**

Associate Professor, Department of Comp. Sc. &amp; Engineering

Kamla Nehru Institute of Technology (KNIT)

Sultanpur (Uttar Pradesh)-228118 (INDIA)

Mobile No : (+91) 9935856198

**E-mail** : [arvind.tiwari1980@gmail.com](mailto:arvind.tiwari1980@gmail.com), [arvind@knit.ac.in](mailto:arvind@knit.ac.in)**Academic Qualification: B.E., M.Tech., Ph.D**

- Ph.D. in Computer Science & Engineering from Indian Institute of Technology (Banaras Hindu University) IIT (BHU), Varanasi .
- M.Tech. in Computer Science & Engineering from Dr. A.P.J. Abdul Kalam University, Lucknow formally (GBTU Lucknow).
- B.E. in Computer Science & Engineering from Chaudhary Charan Singh University, Meerut.

**Professional Experience**

Fifteen years of Experience of Training Undergraduate Students of Computer Science and Engineering in Various Reputed Engineering Colleges.

**Ph.D. Thesis:** Efficient and Robust Feature Selection and Classification approaches for Protein Function Prediction.

**AREAS OF RESEARCH:**

Data Mining, Neural networks, Artificial Intelligence, Machine Learning, Image Processing and Computational Biology.

**PUBLICATIONS:****International/ National Journals (22)**

1. Shukla, Ratnesh Kumar, and Arvind Kumar Tiwari. "A Machine Learning Approaches on Face Detection and Recognition." *Solid State Technology* 63, no. 5 (2020): 7619-7627. **(Scopus)**.
2. Kumar Shukla, Ratnesh, and Arvind Kumar Tiwari. "Comparative Analysis of Machine Learning Based Approaches for Face Detection and Recognition." *Journal of Information Technology Management* 13, no. 1 (2021): 1-21. DOI 10.22059/JITM.2021.80022 **(Scopus)**
3. Ajay Kumar, Rama Sushil and Arvind Kumar Tiwari, Breast Cancer detection using Transfer Learning enabled CLAHE-ResIn model, *International Journal of Future Generation Communication and Networking* Vol. 14, No. 1, (2021), pp. 859–871. **(ESCI)**
4. Mishra, S.K., & Tiwari, A.K. (2020). An Ensemble Approach for the Prediction of Diabetes. *SAMRIDDHI :A Journal of Physical Sciences, Engineering and Technology*, 12(2), 1-7 DOI: 10.18090/samriddhi.v12i02.11 **(UGC approved)**
5. Malviya, S., Tiwari, A.K., Srivastava, R., & Tiwari, V. (2020). Machine Learning Techniques for Sentiment Analysis: A Review. *SAMRIDDHI : A Journal of Physical Sciences, Engineering and Technology*, 12(2), 1-8. DOI: 10.18090/samriddhi.v12i02.3 **UGC Approved**
6. Ajay Kumar, Rama Sushil, Arvind K Tiwari, (2020), "Feature Extraction and Elimination using Machine Learning Algorithm for Breast Cancer Biological Datasets", *International Journal of Advanced Science and Technology (IJAST)*, vol.29, no.2, pp. 863- 873, Jan 13, 2020. **Scopus Index**
7. Ajay, Kumar and Sushil, Rama and Tiwari, Arvind "Significance of Accuracy Levels in Cancer Prediction using Machine Learning Techniques", *Biosci. Biotech. Res. Comm.* 12(3): 648-654 (2019), DOI: 10.21786/bbrc/12.3/16. **(Web of Science)**
8. Ajay Kumar, R. Sushil, A. K. Tiwari, "Comparative Study of Classification Techniques for Breast Cancer Diagnosis" *International Journal of Computer Sciences and Engineering (IJCSE)* Vol.7 , Issue.1, pp.234-240, Jan-2019, E-ISSN: 2347-2693. <https://doi.org/10.26438/ijcse/v7i1.234240>. **(UGC Indexed)**
9. Rahul Kumar, Arvind Kumar Tiwari, "An efficient approach for the prediction of cancer using deep learning with RF-RFE". *Journal of Computational Intelligence in Bioinformatics (JCIB)*, Volume 10 Number 1 (2017), pp. 23-32.
10. Arvind Kumar Tiwari, Rajeev Srivastava "An Efficient Approach for Prediction of Nuclear Receptor and Their Subfamilies Based on Fuzzy k-Nearest Neighbor with Maximum Relevance Minimum Redundancy." *Proceedings of the National Academy of Sciences, India Section A: Physical Sciences: Volume 88 (2016)* 129-136, ISSN 0369-8203, Springer, **SCI Impact Factor 0.48.**

11. Arvind Kumar Tiwari, Rajeev Srivastava “An efficient approach for the prediction of ion channels and their subfamilies” In Computational Biology and Chemistry 58 (2015), 205-221 **Elsevier, SCI, Impact Factor 1.414.**
12. Arvind Kumar Tiwari. "Prediction of G-protein coupled receptors and their subfamilies by incorporating various sequence features into chou's general pseaac." Computer Methods and Programs in Biomedicine, 134 (2016) 197–213, **Elsevier SCI, Impact Factor 3.05.**
13. Arvind Kumar Tiwari and Rajeev Srivastava, “A Survey of Computational Intelligence Techniques in Protein Function Prediction,” International Journal of Proteomics, vol. 2014, Article ID 845479, 22 pages, 2014. doi:10.1155/2014/845479.
14. Arvind Kumar Tiwari, R.B.Mishra “Protein Function Prediction Using Support Vector Machine”. International Journal of Computational Bioinformatics and In Silico Modeling 2(5) 2013: 239-244.
15. Sudhakar Tripathi, Arvind Kumar Tiwari, R.B.Mishra “Protein Function Prediction using Artificial Neural Network (Dynamic) Model”. Journal of Computational Intelligence in Bioinformatics (JCIB) 6(2) 2013: 93-102.
16. Amit Bhola and Arvind Kumar Tiwari “Machine Learning Based Approaches for Cancer Classification Using Gene Expression Data” Machine Learning and Applications: An International Journal (MLAIJ), ISSN: 2394-0840, Vol.2, No.3/4, December 2015, Pages 1-12.
17. Sanjeev Kumar Yadav and Arvind Kumar Tiwari “Classification of Enzymes Using Machine Learning Based Approaches: A Review “, Machine Learning and Applications: An International Journal (MLAIJ), ISSN: 2394-0840, Vol.2, No.3/4, December 2015, Pages 30-49.
18. Arvind Kumar Tiwari, “Prediction of lung cancer using image processing techniques: a review”, Advanced Computational Intelligence: An International Journal (ACII), ISSN: 2454-3934.
19. Arvind Kumar Tiwari ,” machine learning based approaches for prediction of parkinson’s disease”, Machine Learning and Applications: An International Journal (MLAIJ) Vol.3, No.2, June 2016.
20. Sanjay Kumar Singh and arvind Kumar Tiwari, “Design and implementation of Secure Computer based Examination System based on B/S Structure”, International Journal of Applied Engineering Research (IJAER), Vol, 11,number 1 (2016), pp 555-562. ISSN 1087—1090. (**Scopus Index**).
21. Amit Bhola, Sanjeev Yadav, Arvind Kumar Tiwari “Machine Learning based Approach for Protein Function Prediction using Sequence Derived Properties ” International Journal of Computer Applications, (0975 – 8887) Volume 105 – No. 12, November 2014.
22. Anil Kumar, Amit Doegar, Arvind Kumar Tiwari “An Improved Approach for Text Retrieval in Distributed Environment” in International Journal of Advanced Research in Computer Science and Software Engineering, Volume 4, Issue 12, December 2014, pp. 325-330.
23. Shubham Bind, Arvind Kumar Tiwari, Anil Kumar Sahani, “A Survey of Machine Learning Based Approaches for Parkinson Disease Prediction”, International Journal of Computer Science and Information Technologies, Vol. 6 (2) , 2015, 1648-1655.

### International Conferences (38)

1. Ratnesh Kumar Shukla, Arvind Kumar Tiwari, An application of detecting faces with mask and without mask using deep learning model, in the 3rd International Conference on Advanced Computing and Software Engineering (ICACSE-2021), February, 18-19 , 2021, KNIT, Sultanpur.
2. Alpna Patel, Arvind Kumar Tiwari, Fake News Detection using Support Vector Machine, in the 3rd International Conference on Advanced Computing and Software Engineering (ICACSE-2021), February, 18-19 , 2021, KNIT, Sultanpur.
3. Alpna Patel, Arvind Kumar Tiwar, An Efficient Approach for Sentiment Analysis using Convolutional Neural Network, in the 3rd International Conference on Advanced Computing and Software Engineering (ICACSE-2021), February, 18-19 , 2021, KNIT, Sultanpur.
4. Kaushlendra Yadav, Dr. Arvind Kumar Tiwari, Cognitive Computational Approaches for Weather Forecasting: An Overview and Progress, in the 3rd International Conference on Advanced Computing and Software Engineering (ICACSE-2021), February, 18-19 , 2021, KNIT, Sultanpur.
5. Raman Kumar, Arvind Kumar Tiwari , Prediction of Diseases using Deep Learning: A Review, in the 3rd International Conference on Advanced Computing and Software Engineering (ICACSE-2021), February, 18-19 , 2021, KNIT, Sultanpur.
6. B L Pal, Akshay Deepak, Arvind Kumar Tiwari, Protein Protein Interactions Techniques, Challenges, and Its Applications Review, in the 3rd International Conference on Advanced Computing and Software Engineering (ICACSE-2021), February, 18-19 , 2021, KNIT, Sultanpur.
7. Akhilesh Kumar Tripathi, Arvind Kumar Tiwari, Prediction of Neurological Disorders using Deep Learning: A Review, in the 3rd International Conference on Advanced Computing and Software Engineering (ICACSE-2021), February, 18-19 , 2021, KNIT, Sultanpur.
8. Ishwari Singh Rajput, Rakshita Mall, Anand Shankar Tiwari, Arvind Kumar Tiwari, State-of-the-art review of Deep learning techniques in Recommendation system, in the 3rd International Conference on Advanced Computing and Software Engineering (ICACSE-2021), February, 18-19 , 2021, KNIT, Sultanpur.

9. Anuj Singh, Arvind Kumar Tiwari, Prediction of G-Protein Coupled Receptors using Deep Learning: A Review, in the 3rd International Conference on Advanced Computing and Software Engineering (ICACSE-2021), February, 18-19, 2021, KNIT, Sultanpur.
10. Sunil Dalal, Arvind Kumar Tiwari, Jyoti Prakash Singh, A Survey on COVID-19 Disease Detection using Advanced Techniques, in the 3rd International Conference on Advanced Computing and Software Engineering (ICACSE-2021), February, 18-19, 2021, KNIT, Sultanpur.
11. Shalini Agrahari, Arvind Kumar Tiwari, Text Recognition using Deep Learning: A Review, in the 3rd International Conference on Advanced Computing and Software Engineering (ICACSE-2021), February, 18-19, 2021, KNIT, Sultanpur.
12. Sunit Kumar Mishra, Arvind Kumar Tiwari, Deep Learning Techniques For The Prediction Of Diabetes: A Review, in the 3rd International Conference on Advanced Computing and Software Engineering (ICACSE-2021), February, 18-19, 2021, KNIT, Sultanpur.
13. Mrityunjay Kumar, Arvind Kumar Tiwari, A Deep Learning Based Approach for Biometric Recognition Using Hybrid Features, in the 3rd International Conference on Advanced Computing and Software Engineering (ICACSE-2021), February, 18-19, 2021, KNIT, Sultanpur.
14. Ratnesh Kumar Shukla, Arvind Kumar Tiwari, A Survey: Approaches to Facial Detection and Recognition with Machine Learning Techniques, in DoSCI 2021: International Conference/Doctoral Symposium on Computational Intelligence March 6, 2021 at IET Lucknow.
15. Ajay Kumar, Rama Sushil, Arvind Kumar Tiwari, "Cancer Survival Analysis using Machine Learning", presented in ELSEVIER SSRN Series Intl. Conf. on Sustainable Computing in Science, Technology & Management (SUSCOM) – 2019 at Amity University, Jaipur Rajasthan, India, Feb 26-28, 2019. SSRN: <https://ssrn.com/abstract=3354469>.
16. A. Kumar, R. Sushil, A. K. Tiwari, D. S. Satwalia, "Feature Extraction and Elimination using Machine Learning for Breast Cancer Biological Datasets", Intl. Conf. Artificial Intelligence & Robotics in Life Sciences (ICAR'19), Rama University Kanpur, Uttar Pradesh, India, Nov 29-30, 2019. **Scopus index**
17. Singh, Sheela and Arya, Priyanka and Patel, Alpna and Tiwari, Arvind Kumar, Social Media Analysis through Big Data Analytics: A Survey (February 8, 2019). Proceedings of 2nd International Conference on Advanced Computing and Software Engineering (ICACSE) 2019, Available at SSRN: <https://ssrn.com/abstract=3349561> or <http://dx.doi.org/10.2139/ssrn.3349561>.
18. Patel, Alpna and Tiwari, Arvind Kumar, Sentiment Analysis by using Recurrent Neural Network (February 8, 2019). Proceedings of 2nd International Conference on Advanced Computing and Software Engineering (ICACSE) 2019, Available at SSRN: <https://ssrn.com/abstract=3349572> or <http://dx.doi.org/10.2139/ssrn.3349572>.
19. Saini, Praveen and Tiwari, Arvind Kumar, Study of Emotive EPOC in Limited Time Training for Cognitive Control in Casual Users (March 9, 2019). Proceedings of 2nd International Conference on Advanced Computing and Software Engineering (ICACSE) 2019, Available at SSRN: <https://ssrn.com/abstract=3349580> or <http://dx.doi.org/10.2139/ssrn.3349580>
20. Vikram, Arun and Singh, Anuj and Tiwari, Arvind Kumar and Tripathi, Sudhakar, Function Prediction of Human Proteins Using Machine Learning Algorithms (March 11, 2019). Proceedings of 2nd International Conference on Advanced Computing and Software Engineering (ICACSE) 2019, Available at SSRN: <https://ssrn.com/abstract=3350256> or <http://dx.doi.org/10.2139/ssrn.3350256>.
21. Patel, Alpna and Tiwari, Arvind Kumar, Big Geospatial Data Analysis through Cloud Computing: Issues and Challenges (March 11, 2019). Proceedings of 2nd International Conference on Advanced Computing and Software Engineering (ICACSE) 2019, Available at SSRN: <https://ssrn.com/abstract=3350257> or <http://dx.doi.org/10.2139/ssrn.3350257>.
22. Kumar, Mrityunjay and Tiwari, Arvind Kumar, Computational Intelligence Techniques for Biometric Recognition: A Review (March 11, 2019). Proceedings of 2nd International Conference on Advanced Computing and Software Engineering (ICACSE) 2019, Available at SSRN: <https://ssrn.com/abstract=3350260> or <http://dx.doi.org/10.2139/ssrn.3350260>.
23. Pandey, Purnendu Shekhar and Tiwari, Arvind Kumar, Macroparticle Detection in Surface Coating Using Image Processing (March 11, 2019). Proceedings of 2nd International Conference on Advanced Computing and Software Engineering (ICACSE) 2019, Available at SSRN: <https://ssrn.com/abstract=3350263> or <http://dx.doi.org/10.2139/ssrn.3350263>.
24. Tiwari, Arvind Kumar and Shukla, Ratnesh Kumar, Machine Learning Approaches for Face Identification Feed Forward Algorithms (March 11, 2019). Proceedings of 2nd International Conference on Advanced Computing and Software Engineering (ICACSE) 2019, Available at SSRN: <https://ssrn.com/abstract=3350264> or <http://dx.doi.org/10.2139/ssrn.3350264>.
25. Kumar, Ajay and Sushil, Rama and Tiwari, Arvind Kumar, Machine Learning Based Approaches for Cancer Prediction: A Survey (March 11, 2019). Proceedings of 2nd International Conference on Advanced Computing and Software Engineering (ICACSE) 2019, Available at SSRN: <https://ssrn.com/abstract=3350294> or <http://dx.doi.org/10.2139/ssrn.3350294>
26. Vishwakarma, Himanshu and Verma, Gargi and Singh, Smita and Tiwari, Arvind Kumar, Single Shot Multi-Face Detection & Gender Recognition (March 11, 2019). Proceedings of 2nd International

- Conference on Advanced Computing and Software Engineering (ICACSE) 2019, Available at SSRN: <https://ssrn.com/abstract=3350305> or <http://dx.doi.org/10.2139/ssrn.3350305>
27. Yadav, Kuldeep and Kumar, Manjesh and Kumar, Shailesh and Tiwari, Arvind Kumar, Real Time Face Recognition based on Convolution Neural Network (March 11, 2019). Proceedings of 2nd International Conference on Advanced Computing and Software Engineering (ICACSE) 2019, Available at SSRN: <https://ssrn.com/abstract=3350324> or <http://dx.doi.org/10.2139/ssrn.3350324>
  28. Singh, Anuj and Tiwari, Arvind Kumar, A Survey on Computational Models for Learning and Memory in Artificial Intelligence (March 12, 2019). Proceedings of 2nd International Conference on Advanced Computing and Software Engineering (ICACSE) 2019, Available at SSRN: <https://ssrn.com/abstract=3350991> or <http://dx.doi.org/10.2139/ssrn.3350991>
  29. Kumar, Narendra and Shukla, H. S. and Tiwari, Arvind Kumar and Dahiya, Anil Kumar, Dual Ascent Based Median Filter for Image Restoration (March 11, 2019). Proceedings of 2nd International Conference on Advanced Computing and Software Engineering (ICACSE) 2019, Available at SSRN: <https://ssrn.com/abstract=3350334> or <http://dx.doi.org/10.2139/ssrn.3350334>
  30. Arvind Kumar Tiwari, Rajeev Srivastava, Subodh Srivastava, Shailendra Tiwari “*An efficient approach for the prediction of G-protein coupled receptors and their subfamilies*”. In the 3rd international conference on Advanced Computing, Networking, and Informatics (ICACNI-2015), June. 23-25, 2015 KIIT, **Smart Innovation, Systems and Technologies Springer Verlag Publication LNCS (Indexed in Scopus)**.
  31. Arvind Kumar Tiwari, Rajeev Srivastava, Shailendra Tiwari “*Machine learning based approach for the prediction of voltage gated ion channels and their subfamilies*”. International Conference on Emerging Trends in Information Technology (ICETIT-2015), February 21-22, 2015 Babasaheb Bhimrao Ambedkar Univesrity (BBAU), Central University, Lucknow, Shroff Publishers & Distributors Pvt. Ltd, Mumbai.
  32. Arvind Kumar Tiwari, Rajeev Srivastava “*Feature based classification of nuclear receptors and their subfamilies using fuzzy k-nearest neighbor*”. In The international conference on advances in computer engineering and applications-ICACEA 2015. **IEEE Explore**.
  33. Sudhakar Tripathi, Arvind Kumar Tiwari, R.B.Mishra “*Rule Based Model for Clustering Gene Expression Data*” In Proceedings of In Proceedings of International conference in Artificial Intelligence and Soft Computing (AISC-2012) , IIT-BHU ,Varanasi, (December 2012).
  34. Arvind Kumar Tiwari, Suresh Dara “*Computational Intelligence Techniques for the Prediction of Cancers: A Review*”, International Conference on updates in cancer prevention and research (ICUCPR-2017), from 14<sup>th</sup> February to 16<sup>th</sup> February, 2017, Babasaheb Bhimrao Ambedkar Univesrity (BBAU), Central University, Lucknow,.
  35. Arvind Kumar Tiwari, Shailendra Tiwari, Rajeev Srivastava, “*A Probabilistic Patch based hybrid framework for CT/PET Image Reconstruction*”, International Conference on Signal Processing and Communication, (ICACNI-2015), June. 23-25, 2015 KIIT, **Smart Innovation, Systems and Technologies Springer Verlag Publication LNCS (Indexed in Scopus)**.
  36. Arvind Kumar Tiwari, Shailendra Tiwari, Rajeev Srivastava, “*On the evaluation and selection of Priors for MLEM based CT and PET image reconstruction*”, International Conference on Emerging Trends in Information Technology (ICETIT-2015), February 21-22, 2015 Babasaheb Bhimrao Ambedkar Univesrity (BBAU), Central University, Lucknow, Shroff Publishers & Distributors Pvt. Ltd, Mumbai.
  37. SanjeevYadav, AmitBhola, Arvind Kumar Tiwari, “*Classification of enzyme functional classes and subclasses using support vector machine*”, International conference on futuristic trend in Computational Analysis and Knowledge Management (ABLAZE-2015), Amity University Noida. **IEEE Explore**.
  38. Arvind Kumar Tiwari, Sanjay Singh, Mohd. Husain (December 2012) “*An Algorithm for Database Selection and Document Selection*” In Proceedings of International conference in Artificial Intelligence and Soft Computing (AISC-2012) , IIT-BHU ,Varanasi.

#### **National Conferences: (05)**

1. Ratnesh Kumar Shukla and Dr. Arvind Kumar Tiwari, “To Improving the Quality of Images using FADEIN Techniques” National Conference of Industry 4.0 (NCI.-4.0) organized by Faculty of Engineering & Computing Sciences Teerthanker Mahaveer University Moradabad, February 2020. (ISBN-978-93-5396-250-0).
2. Mohd. Husain, S. Qamar Abbas, Arvind Tiwari, Nagendra Pratap Singh (April 2007) ‘*Impact of User’s Query Complexity on Web Results*’, In Proceedings of Advances in Computer Sc. & Technology, National Seminar SRMSCET, Bareilly.
3. Mohd. Husain, S. Qamar Abbas, Arvind Tiwari, Nagendra Pratap Singh (August 2007) ‘*Information Extraction Using Text Miner*’, In Proceedings of National Seminar on Advance Computing & Communications, Bareilly.
4. Arvind Tiwari, Nagendra Pratap Singh (February 2008) ‘*Processing of Commit in Real-Time Distributed Database Systems*’, In Proceedings of National Conference A.I.E.T., Lucknow.
5. Arvind Tiwari, (February 2008) ‘*Automata theory using JAVA Formal Languages and Automata Packages*, In Proceedings of National Conference, A.I.E.T., Lucknow.

#### **Book Chapters (04):**

1. Arvind Kumar Tiwari “*Feature Selection Algorithms for Classification and Clustering: Feature Selection Algorithms for Classification and Clustering*”, Ubiquitous Machine Learning and its Applications, A

volume in the Advances in Computational Intelligence and Robotics (ACIR) Book Series, ISSN: 2327-0411; eISSN: 2327-042X.

2. Arvind Kumar Tiwari "Introduction to Machine Learning", Ubiquitous Machine Learning and its Applications, A volume in the Advances in Computational Intelligence and Robotics (ACIR) Book Series, ISSN: 2327-0411; eISSN: 2327-042X.
3. Arvind Kumar Tiwari "Machine Learning Based Approach for Face Recognition", Ubiquitous Machine Learning and its Applications, A volume in the Advances in Computational Intelligence and Robotics (ACIR) Book Series, ISSN: 2327-0411; eISSN: 2327-042X.
4. Arvind Kumar Tiwari, Suresh Dara "Application of Optimization techniques for Gene Expression Data Analysis", Ubiquitous Machine Learning and its Applications, A volume in the Advances in Computational Intelligence and Robotics (ACIR) Book Series, ISSN: 2327-0411; eISSN: 2327-042X.

#### **FDP/STC/Workshop / Conference**

##### **A. Organised (12)**

1. Organized 3rd International Conference on Advanced Computing and Software Engineering (**ICACSE-2021**) as a **Convener** by department of CSE KNIT, Sultanpur during 18th February to 19th February 2021.
2. Organized one week Faculty Development Program as a **Coordinator** on **Deep Learning and Computer Vision (DLCV-2021)** Sponsored by **AICTE Training and Learning (ATAL) Academy** at CSE Department, KNIT ,Sultanpur during 07th June to 11th June, 2021.
3. Worked as **Coordinator** to organize and planning for student training through Spoken Tutorial Program IIT Bombay.
4. Worked as **Coordinator** to organize Faculty Development Program on **Latex** through Spoken Tutorial Program IIT Bombay
5. Worked as **Coordinator** to organize one week Faculty Development Program on **Python Programming with Industry Perspective** jointly organized by Electronics and ICT Academies, NIT Patna during December 2-6, 2019 through National Knowledge Network.
6. Worked as **Coordinator** to organize one week Faculty Development Program on **AI & Machine Learning** jointly organized by Electronics and ICT Academies, NIT Patna during 23<sup>rd</sup> Dec to 27<sup>th</sup> Dec, 2019 through National Knowledge Network.
7. Worked as **Coordinator** to organize one week Faculty Development Program on **ICT tools for Teaching, Learning Process & Institutes** jointly organized by Electronics and ICT Academies, NIT Patna during 13<sup>th</sup> Jan to 17<sup>th</sup> Jan, 2020 through National Knowledge Network.
8. Worked as **Coordinator** to organize one week Faculty Development Program on **Control and Automation** by Department of EE, NITTTR Kolkata during 18/11/2019 to 22/11/2019.
9. Worked as **Coordinator** to organize one week Faculty Development Program on **Robotics & AI** jointly organized by Electronics and ICT Academies during June 24-28, 2019 through National Knowledge Network.
10. Worked as Remote Center **Coordinator** to organize one week Faculty Development Program on **Next Generation Wireless Networks** organized by Department of CSE, NITTTR Chandigarh during April29,2019-May 03, 2019.
11. Organized 2<sup>nd</sup> **International Conference on Advanced Computing and Software Engineering (ICACSE-2019)** as a **Convener** by department of CSE KNIT ,Sultanpur during 08th February to 09th February,
12. Organized one week Faculty Development Program as a **Convener** on **Machine Learning and Computer Vision (MLCV-2018)** by department of CSE KNIT ,Sultanpur during 09th April to 13th April, 2018.

##### **B. Attended (23)**

1. Participated one week Faculty Development Program on **Data Science** jointly organized by KNIT Sultanpur and MNNIT Allahabad during May 04-08,2020 through online mode
2. Participated one week Faculty Development Program on **Python Programming with Industry Perspective** jointly organized by Electronics and ICT Academies, NIT Patna during December 2-6, 2019 through National Knowledge Network.
3. Participated one week Faculty Development Program on **AI & Machine Learning** jointly organized by Electronics and ICT Academies, NIT Patna during 23rd Dec to 27th Dec, 2019 through National Knowledge Network.
4. Participated one week Faculty Development Program on **ICT tools for Teaching, Learning Process & Institutes** jointly organized by Electronics and ICT Academies, NIT Patna during 13th Jan to 17th Jan, 2020 through National Knowledge Network.
5. Participated one week Faculty Development Program on **VLSI Chip Design Hands-on using open source EDA** jointly organized by Electronics and ICT Academies, NIT Patna during 16th December to 20th December, 2020 through National Knowledge Network.

6. Participated two days' workshop on **Cloud Edge Technologies** by Department of CSE, KNIT Sultanpur during 20/11/2019 to 21/11/2019.
7. Participated one week Short Term Course on **Practical Aspects of Optimization (PAO-2019)** held during August 01-05,2019 organized by Department of ME, KNIT Sultanpur.
8. Participated and Successfully Completed Faculty Development Program on **Latex** through Spoken Tutorial Program IIT Bombay, July 2019.
9. Participated Workshop on **NBA Accreditation: Regulations and Procedures**, under the aegis of TEQIP-III , at MNIT Allahabad on 17 July , 2019.
10. Participated one week Short Term Course on **Numerical Techniques for scientific Computations (NTSC-2019)** held during July 15-19,2019 jointly organized by Department of APSH, KNIT Sultanpur and department of Mathematics MNNIT Allahabad at, KNIT Sultanpur.
11. Participated one week Faculty Development Program on **Control and Automation** by Department of EE, NITTTR Kolkata during 18/11/2019 to 22/11/2019.
12. Participated one week Faculty Development Program on **Robotics & AI** jointly organized by Electronics and ICT Academies during June 24-28, 2019 through National Knowledge Network.
13. Participated One Day Workshop on **Virtual Laboratories** , at IIT, Kanpur on September,14 , 2019
14. Participated One Day Workshop on **Outcome Based Education and NBA Digital Platforms**, Sponsored by TEQIP-III at KNIT Sultanpur on September 04 , 2019.
15. Participated one week Faculty Development Program on **Next Generation Wireless Networks** organized by Department of CSE, NITTTR Chandigarh during April29, 2019-May 03, 2019.
16. Participated one week Short Term Course on **Emerging Power Technologies and Management (EPTM-2019)** held during April 08-13,2019 jointly organized by Department of EED, KNIT Sultanpur and MNNIT Allahabad at, KNIT Sultanpur.
17. Participated one Day Workshop cum Brainstorming Session on **Sunrising Technologies** at A.P.J. Abdul Kalam Technical University Lucknow on 18th March, 2019.
18. Participated Two Days Workshop on **Outcome Based Accreditation For Undergraduate Engineering Programs** Under the aegis Of National Project Implementation Unit , at KNIT Sultanpur during 19 March -20 March , 2018.
19. Participated one week Faculty Development Program on **Advanced Techniques in Image Processing** by department of CSE IET, Lucknow during 22 February -27 February, 2018.
20. Participated as **Session Chair** in the National Conference on Emerging Trends in Science & Technology organized by Amrapali Institute of Technology & Sciences in association with Uttarakhand Science Education and Research Center held on 29 April -2017.
21. Participated one week short term training program on **Open source Technologies** organized by department of CSE NITTTR Chandigarh at DIT University during 29 August -02 September, 2016
22. Participated one week short term training program on **Fuzzy sets, system** organized by department of CSE at NIT Patna during 25-30 April, 2016.
23. Participated in the QIP short term course (one week) on **Computational Biology and Neuroscience**, organized by department of CSE, IIT (BHU) Varanasi, from 13-18 June, 2016.

#### C. Expert Lecture/ Keynote Speakers: (11)

1. Delivered an Invited Talk delivered an invited talk on **IoT in Weather Forecasting** on 2020-10-8 during AICTE Training And Learning (ATAL) Academy Online FDP on "Internet of Things (IoT)" from 2020-10-4 to 2020-10-5 at Rajkiya Engineering College Sonbhadra , Uttar Pradesh.
2. Delivered an expert talk on 21 JANUARY, 2021 on the topic "**Feature Selection Techniques in Data Management**" in a One Week Online Faculty Development Programme on "DATA MANAGEMENT" from 18th Jan – 22nd Jan, 2021 sponsored by Dr. A. P. J. Abdul Kalam Technical University, Uttar Pradesh, Lucknow & organized by R. R. Institute of Modern Technology, Bakshi Ka Talab, Lucknow.
3. Delivered an **Invited Talk on Machine Learning** and its application dated February 11, 2020 in " one week FDP on Smart Infrastructure and Secure Computing Technologies (SISCT-2020) " at Rajkiya Engineering College Sonbhadra.
4. Delivered an **expert lecture** on **Biometric Recognition using Machine Learning** "on dated 27<sup>th</sup> August 2019 in "one week National Workshop on Image Forensic using Machine Learning (IFML-2019)" at Rajkiya Engineering College Ambedkar Nagar.
5. Delivered an **expert lecture** on **Pattern Recognition** "on dated 27<sup>th</sup> August 2019 in "one week National Workshop on Image Forensic using Machine Learning (IFML-2019)" at Rajkiya Engineering College Ambedkar Nagar.
6. Delivered an **expert lecture** for two days on **IBM SPSS Modeller and its Application** "on dated 09 & 12 July 2019 in "Four Weeks Summer Internship/Training on **MATLAB & Its Application in Engineering**" at Rajkiya Engineering College Ambedkar Nagar.
7. Delivered an expert lecture on "**Artificial Intelligence and Machine Learning using Python**" in One Week Student Development Programme on " Artificial Intelligence- Machine Learning with Python" during 03 Sep. 2019 to 07 Sep. 2019 in Rajkiya Engineering College Bijnor, Chandpur, Uttar Pradesh.

8. Delivered keynote address on “**Machine Learning**” and its application” in International Conference on Academic and Engineering 07<sup>th</sup>-08<sup>th</sup> June 2019 at Lucknow organized by IFERP.
9. Delivered an expert lecture on “**Machine Learning**” and its application in **Image Processing**” in one week National Workshop on Image Processing Computer Vision and its application (IPCVA-2019) on 06<sup>th</sup> March 2019 at REC Ambedkar Nagar
10. Delivered an expert lecture on “**Machine Learning**” in National Workshop on Evolving Drift in Computer Science (NWEDCS-2018) on 11<sup>th</sup> July 2018 at REC Ambedkar Nagar.
11. Delivered two expert lectures on “**Machine Learning and its application**” in Department of CSE on 05<sup>th</sup> May to 06<sup>th</sup> May, 2018 at REC Ambedkar Nagar.

#### **Book:**

1. Arvind Kumar Tiwari and Pradeep Kumar, “Ubiquitous Machine Learning and its Applications” A volume in the Advances in Computational Intelligence and Robotics (ACIR) Book Series, ISSN: 2327-0411; eISSN: 2327-042X, Published by IGI Global international publisher.
2. Arvind Kumar Tiwari and Anil Kumar Malviya, “2nd International Conference on Advanced Computing and Software Engineering (ICACSE-2019), ISBN, 978-93-88237-44-4 Published by Excel India publishers , New Delhi.

#### **Ph.D. (Thesis) Supervision**

1. **Ajay Kumar (Reg. No. 1481022008):** Design of Machine Learning Based Approach for Prediction of Cancer using Big Data Analytics. DIT University, Dehradun (**Submitted**).
2. **Anuj Kumar:** Machine learning based approaches for the prediction of neurotransmitters and neurological disorders. Dr. A. P. J. A.K.T.U. Lucknow (Under Progress).
3. **Ratnesh Kumar Shukla:** Machine learning based approaches for Face recognition and Face Detection. Dr. A. P. J. A.K.T.U. Lucknow (Under Progress).
4. **Mr. Kausalendra Yadav(18CSE032):** Design and develop efficient cognitive computational approaches for weather forecasting Dr. A. P. J. A.K.T.U. Lucknow (Under Progress)
5. **Mr. Akhilesh Kumar Tripathi** Machine Techniques for the prediction of neurological disorders. Dr. A. P. J. A.K.T.U. Lucknow (Under Progress).
6. **Ms. Shalini Agrahari** Text recognition Dr. A. P. J. A.K.T.U. Lucknow (Under Progress).

#### **M.Tech. (Thesis): Awarded: 11**

#### **Membership:**

1. Professional Member of Association for Computing Machinery (ACM) (**Membership No. 2149159**).
2. Lifetime Membership of International Association of Engineers (IAENG), Hong Kong (**Membership No 239461**)
3. Lifetime Membership of Science and Engineering Institute (SCIEI) (**Membership No. 20190729004**).
4. Lifetime Membership of Internet Society (ISOC) of Delhi Chapter, USA.

#### **Member in Editorial Board:**

1. Worked as Guest Editor in *Recent Patents on Computer Science* Special issue Advanced Computing and Software Engineering.

#### **Professional Service as Reviewer:**

1. Multimedia Tools and Application
2. Scientific Reports
3. Bioinformatics and Cybernetics
4. Second International Conference on Advanced Computing and Software Engineering (ICACSE-2019)
5. Bio-cybernetics and Biomedical Engineering
6. Second International Conference on Advance Computing and Application (ICACTA 2020) on the theme “Intelligent Computing”.
7. Current Research in Medicine

8. Recent Patents on Computer Science
9. Ad Hoc Networks
10. American Journal of Biochemistry and Biotechnology
11. International Journal of Cognitive Informatics and Natural Intelligence (IJCINI)
12. International Journal of Software Science and Computational Intelligence (IJSSCI)
13. International Journal of Medical Informatics
14. Journal of King Saud University - Computer and Information Sciences
15. International Journal of Organizational and Collective Intelligence
16. Journal of Advances in Mathematics and Computer Science
17. International Journal of Robotics Applications and Technologies (IJRAT)
18. BAOJ Bioinformatics
19. Engineering Science and Technology, an International Journal
20. Computer Methods and Programs in Biomedicine
21. Journal of Computer Science
22. Journal of Computer Science and Informatics

**Additional Responsibility:**

1. Working as Counselor for BTech 1<sup>st</sup> Year IT Student **for session 2018-21.**
2. Working as Conveners for CSE/IT/MCA Department of Institute Industry Interaction cell **for session 2018-21.**
3. Working as Convener of CDC for the department for the **session 2018-21.**
4. Working as Officer in Charge for Virtual and ICT Based Learning for the **Session 2018-21**

**Dr. A. K. Tiwari**