

## CURRICULAM VITAE

Dr. Dilip Kumar Choubey  
Assistant Professor,  
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## BIOGRAPHY

**Dr. Dilip Kumar Choubey** received his B.E. in Information Technology and M.Tech degree in Computer Science and Engineering from RGPV Bhopal in the year 2010 and 2012 respectively. He received his Ph.D. in Engineering from Birla Institute of Technology (B.I.T), Mesra, Ranchi in 2018. He was also associated with VIT Vellore, Tamil Nadu and NIT Patna, Bihar as an Assistant Professor and currently working as an Assistant Professor in the Department of Computer Science & Engineering, Indian Institute of Information Technology Bhagalpur, Bihar since November 2020. He is an author of 2 books, 01 patent published, 02 copyright grant and has more than 80 reputed research publications in international journals, book chapters and conference proceedings. He has also received one project as a Co-PI funded by TEQUIP Collaborative Research Scheme. Currently, he is guiding 02 Ph.D. research scholars, guided 07 M. Tech students and 31 B.Tech Projects. Being a Coordinator, he has conducted many FDP/STC/Workshops, delivered many expert talks in FDP/Workshop/Conferences. He has reviewed many research papers in reputed journals/conferences/book chapters. He is the Fellow of IETE, members of several professional bodies such as IEEE, IAENG, ISOC, SDIWC, etc. His research interests include Artificial Intelligence, Machine Learning, Deep Learning, Data Science, Soft Computing, Pattern Recognition, Bioinformatics, Data Mining, Database Management Systems, IoT, etc.

## EDUCATIONAL DEGREES

### **Ph.D. (August 2018)**

Department of Computer Science and Engineering, Birla Institute of Technology, Mesra, Ranchi, Jharkhand, India

**Specialization:** Engineering (Computer Science & Engineering)

**Research Areas:** Soft Computing, Data Mining, Pattern Recognition, and Machine Learning

**Thesis Title:** Classification Techniques and Rule based System for Diabetes.

**Thesis Descriptions:** Diabetes means blood sugar is above desired level on a sustained basis. We have collected the real data of diabetes patients and suffered from some other diseases people or normal people in the hospital who visited to doctor. For this collected real dataset and some existing datasets have used several classification techniques and also developed rule-based diagnosis system for diabetes as per the suggestions of Diabetologist.

**CGPA obtained in course work:** 8.25/10

**M.Tech. (Dec 2012)**

Department of Computer Science and Engineering, Oriental College of Technology, Bhopal, Madhya Pradesh, India

**Specialization:** Computer Science and Engineering

**Research Areas:** Database, and Web Security

**Thesis Title:** Loss Minimization of Web Databases by Fine Grain Approach.

**Thesis Descriptions:** The secured web database has been created at the application and database layer, minimized the loss of data in the database, and also recovered the lost data. When data has been altered by an unauthorized user, then authorized user is informed by SMS and Email by using fine grain access control.

**CGPA obtained:** 7.87/10 (78%)

**B.E. (May 2010)**

Department of Information Technology, Bansal Institute of Science and Technology, Bhopal, Madhya Pradesh, India

**Specialization:** Information Technology

**Marks obtained:** 69.94% (2238 out of 3200)

**Research Areas of Interests:**

- Artificial Intelligence
- Machine Learning
- Deep Learning
- Data Science
- Soft Computing
- Pattern Recognition
- Bioinformatics
- Data Mining
- Database Management Systems
- IoT

**Teaching Interests:**

- Database Management Systems
- Data Structures and Algorithms
- Soft Computing
- Data Science
- Data Visualization
- Machine Learning
- Introduction to Computing
- Data Mining
- Data Communication
- Object Oriented Programming (OOP)
- Computer Network

## TEACHING AND RESEARCH EXPERIENCE

### Current Position:

- Assistant Professor Grade II, Level 11, PB-3, AGP RS RS7000/-, Department of Computer Science & Engineering, Indian Institute of Information Technology Bhagalpur, Bihar, India since 19<sup>th</sup> May, 2023.

### Teaching Experiences:

- Assistant Professor Grade II, Level 10, PB-3, AGP RS RS6000/-, Department of Computer Science & Engineering, Indian Institute of Information Technology Bhagalpur, Bihar, India from 9<sup>th</sup> November 2020 to 19<sup>th</sup> May, 2023.
- Worked as an Assistant Professor (Senior) in School of Computer Science and Engineering, Vellore Institute of Technology, Vellore, Tamil Nadu from 13<sup>th</sup> May 2019 to 06<sup>th</sup> November 2020.
- Worked as an Adhoc Faculty in Department of Computer Science & Engineering, National Institute of Technology, Patna, Bihar from 9<sup>th</sup> August 2018 to 9<sup>th</sup> May 2019.
- Worked as an Assistant Professor (On Contract) in Department of Computer Science & Engineering, National Institute of Technology, Patna, Bihar from 30<sup>th</sup> March 2017 to 31<sup>st</sup> May 2018.
- Worked as an Assistant Professor in Department of Information Technology, Lakshmi Narain College of Technology, Bhopal, Madhya Pradesh from 5<sup>th</sup> July 2013 to 31<sup>st</sup> March 2014.
- Worked as a Senior Lecturer in Department of Information Technology, Oriental College of Technology, Bhopal from 20<sup>th</sup> February 2013 to 4<sup>th</sup> July 2013.

### Research Experiences:

#### Ph.D. Guidance: 02 Pursuing

S. No.	Title of Ph.D. Thesis	Name of the Scholar	Name of Guide	Pursuing/ Submitted/ Awarded	University/ Institute	Role	Year of Award
1	Prediction of Alzheimer's Disease using Artificial Intelligence and Machine Learning (Tentative)	Rajesh Kumar Singh (2203008)	Dr. Dilip Kumar Choubey	Pursuing Since 16-08-2022	IIT Bhagalpur	Solely	.....
2	An Efficient Detection of Paddy Plant Leaf Diseases using Machine Learning Techniquess	Ratnesh Kumar Dubey (2103001)	Dr. Dilip Kumar Choubey	Pursuing Since 23-08-2021	IIT Bhagalpur	Solely	.....

**M.Tech Guidance: 07 Nos. Completed, 01 Nos. Pursuing.**

S. No.	Session	Title of Thesis	Name of Students with Roll No.	University/Institute	Year of Award
1	Autumn – June 2024-July 2025.	Application of Data Science in Plant Diseases [Tentative]	Kavish Thakur (230201003)	Indian Institute of Information Technology Bhagalpur, Bihar	2025
2	Autumn – June 2023-July 2024.	An Efficient Detection of Lung and Colon Cancer Using Deep Learning Techniques	Deepali Sharma (2202004)	Indian Institute of Information Technology Bhagalpur, Bihar	2024
3	Autumn – June 2022-July 2023.	Hybrid Advantage Evaluation for Heavy Engine Duty Cycle	Anish Anand (2102002)	Indian Institute of Information Technology Bhagalpur, Bihar	2023
4	Autumn – June 2022-July 2023.	Analysis and Implementation for Chatbots, Feedback & Insurance Portal to Enhance Customer Experience	Satyam Mallik (2102019)	Indian Institute of Information Technology Bhagalpur, Bihar	2023
5	Autumn – June 2022-July 2023.	Survival Prediction and Cell Classification in Bone Marrow Using Machine Learning and Deep Learning Approach	Rishabh Hanselia (2102020)	Indian Institute of Information Technology Bhagalpur, Bihar	2023
6	Fall -May 2019-May 2020.	Heart Disease Prediction using Effective Machine Learning and Data Mining Techniques	Keshav Srivastava (18MCS0091)	Vellore Institute of Technology, Vellore, Tamil Nadu	2020
7	Fall -May 2019-May 2020.	Implementation and Analysis of Machine Learning Techniques for Classification of Liver Disorder	Sushmit Pahari (18MCS0094)	Vellore Institute of Technology, Vellore, Tamil Nadu	2020
8	Fall -May 2019-May 2020.	Breast Cancer Prediction using Machine Learning	Ramik Rawal (18MCS0037)	Vellore Institute of Technology, Vellore, Tamil Nadu	2020

**MCA/M.Sc.: 01 Nos.****B.Tech/B.E. Guidance: 31 Nos.**

## RESEARCH PUBLICATIONS (81: 28 J+37 C+16 B C; 02: B)

Journals		Conferences		Books		Book Chapters	
International	National	International	National	International	National	International	National
28	00	37	00	02	00	16	00
SCI/SCIE/ESCI (WoS), Scopus	Others	SCI/SCIE/ESCI (WoS), Scopus	Others	SCI/SCIE/ESCI (WoS), Scopus	Others	SCI/SCIE/ESCI (WoS), Scopus	Others
22	06	34	03	01	01	08	08
<b>Total No. of Citations with h index and i10- index</b>							
Google Scholar				Scopus		WoS, Publons (Researcher)	
1004				622		158	
h-index		i10- index		h-index		i-index	
17		21		14		NA	

### International Journals (28)

#### SCI/SCIE (11)

- Ratnesh Kumar Dubey, **Dilip Kumar Choubey**, “Feature selection with Optimized XGBoost model-based paddy plant leaf disease classification”, Multimedia Tools and Applications, Springer, Electronic ISSN: 1573-7721, Print ISSN: 1380-7501, 2024. **DOI: <https://doi.org/10.1007/s11042-024-18524-1>. IF: 3.6 [SCIE Indexed]**
- Ratnesh Kumar Dubey, **Dilip Kumar Choubey**, “Reliable Detection of Blast Disease in Paddy Plant Using Optimized Artificial Neural Network”, Agronomy Journal, Wiley, Online ISSN:1435-0645, Print ISSN: 0002-19622023, Vol. 116, Issue 3, pp. 1099-1111, 2024. **DOI: <https://doi.org/10.1002/agj2.21449>. IF: 2.1. [SCIE Indexed]**
- Ratnesh Kumar Dubey, **Dilip Kumar Choubey**, “Adaptive feature selection with deep learning MBi-LSTM model-based paddy plant leaf disease classification”, Multimedia Tools and Applications, Springer, Electronic ISSN: 1573-7721, Print ISSN: 1380-7501, Vol. 83, Issue 9, pp. 25543-25571, 2024. **IF: 3.6. DOI: <https://doi.org/10.1007/s11042-023-16475-7> [SCIE Indexed]**
- Ratnesh Kumar Dubey, **Dilip Kumar Choubey**, “An efficient adaptive feature selection with deep learning model-based paddy plant leaf disease classification”, Multimedia Tools and Applications, Springer, Electronic ISSN: 1573-7721, Print ISSN: 1380-7501, Vol. 83, Issue 8, pp. 22639-22661, 2024. **IF: 3.6. DOI: <https://doi.org/10.1007/s11042-023-16247-3> [SCIE Indexed]**
- Ratnesh Kumar Dubey, **Dilip Kumar Choubey**, “Efficient Prediction of Blast Disease in Paddy Plant using Optimized Support Vector Machine”, IETE Journal of Research, Taylor & Francis, Print ISSN: 0377-2063 Online ISSN: 0974-780X, pp. 1-11, 2023. **IF: 1.877. DOI: <https://doi.org/10.1080/03772063.2023.2195842> [SCIE Indexed]**
- Ratnesh Kumar Dubey, **Dilip Kumar Choubey**, “Deconstructive human face recognition using deep neural network”, Multimedia Tools and Applications, Springer, Electronic ISSN: 1573-7721, Print ISSN: 1380-7501, Vol. 82, pp. 34147–34162, 2023. **IF: 3.6. DOI: <https://doi.org/10.1007/s11042-023-15107-4> [SCIE Indexed]**
- Manish Kumar, S. K. Mishra, **Dilip Kumar Choubey**, Sunil Kumar Jangir, Dinesh Goyal, “Multichannel Heuristic Learning based Single Layer Neural Network Filter for Mixed Noise Suppression from Color Doppler Ultrasound Images”, Journal of Real-Time

Image Processing, Springer, ISSN: 1861-8200 (Print), ISSN: 1861-8219 (Online), Vol. 18, Issue 4, pp. 1397-1408, 2021. **IF: 3.0. DOI: <https://doi.org/10.1007/s11554-020-01061-z> [SCIE Indexed]**

- Sunil Kumar Jangir, Nakul Joshi, Manish Kumar, **Dilip Kumar Choubey**, Shatakshi Singh, Madhushi Verma, “Functional Link Convolutional Neural Network for the Classification of Diabetes Mellitus”, International Journal for Numerical Methods in Biomedical Engineering, Wiley, ISSN: 2040-7947 (Online), Vol. 37, Issue 8, pp. 1-12, 2021. **IF: 2.648. DOI: <https://doi.org/10.1002/cnm.3496> [SCIE Indexed].**
- **Dilip Kumar Choubey**, Sanchita Paul, Smita Sandilya, Vinay Kumar Dhandhanian, “Implementation and Analysis of Classification algorithms for Diabetes”, Current Medical Imaging, Bentham Science, ISSN: 1573-4056 (Print), ISSN: 1875-6603 (Online), Vol. 16, Issue 4, pp. 340-354, 2020. **IF: 1.4. DOI: [10.2174/1573405614666180828115813](https://doi.org/10.2174/1573405614666180828115813). [SCIE Indexed].**
- Manish Kumar, S. K. Mishra, Sumit Choubey, S. S. Tripathi, **Dilip Kumar Choubey**, Dinesh Dash, “Cat Swarm Optimization based Functional Link Multilayer Perceptron for Suppression of Gaussian and Impulse Noise from Computed Tomography Images”, Current Medical Imaging Reviews, Bentham Science, ISSN: 1573-4056 (Print), ISSN: 1875-6603 (Online), Vol. 16, Issue 4, pp. 329-339, 2020. **IF: 1.4. DOI: [10.2174/1573405614666180903115336](https://doi.org/10.2174/1573405614666180903115336). [SCIE Indexed].**
- **Dilip Kumar Choubey**, Sanchita Paul, Vinay Kumar Dhandhanian, “Rule Based Diagnosis System for Diabetes”, Biomedical Research, Allied Academies, ISSN: 0970-938X (Print), ISSN: 0976-1683. (Electronic), Vol. 28, Issues 12, pp. 5196-5209, 2017. **IF: 0.30. <https://www.alliedacademies.org/articles/rule-based-diagnosis-system-for-diabetes.pdf>. [SCIE Indexed].**

#### Scopus/ESCI (11)

- **Dilip Kumar Choubey**, Arvind Choubey, Shalini Mahto, Vaibhav Soni, “Soft Computing Approaches for Ovarian Cancer: A Review”, GMSARN International Journal, ISSN:1905-9094, Vol. 18, Issue 2, pp. 223-239, 2024, **DOI: <https://gmsarnjournal.com/home/wp-content/uploads/2023/09/vol18no2-10.pdf>. [Scopus Indexed].**
- **Dilip Kumar Choubey**, Sudhakar Tripathi, Prabhat Kumar, Vaibhav Shukla, Vinay Kumar Dhandhanian, “Classification of Diabetes by Kernel based SVM with PSO”, Recent Advances in Computer Science and Communications, Bentham Science, ISSN: 2666-2558 (Print), ISSN: 2666-2566 (Online), Vol. 14, Issue 4, pp. 1242-1255, 2021. **DOI: [10.2174/2213275912666190716094836](https://doi.org/10.2174/2213275912666190716094836). [Scopus Indexed].**
- Vaibhav Shukla, Prabhat Kumar Patel, **Dilip Kumar Choubey**, Santosh Kumar, “Cascadability analysis of WDM recirculating loop buffer-based switch in optical data networks”, Journal of Optical Communications, De Gruyter, ISSN: 0173-4911, ISSN: 2191-6322 (Online), 2020. **DOI: <https://doi.org/10.1515/joc-2020-0100>. [Scopus Indexed]**
- **Dilip Kumar Choubey**, Manish Kumar, Vaibhav Shukla, Sudhakar Tripathi, Vinay Kumar Dhandhanian, “Comparative Analysis of Classification Methods with PCA and LDA for Diabetes”, Current Diabetes Reviews, Bentham Science, ISSN: 1573-3998

(Print), ISSN: 1875-6417 (Online), Vol. 16, Issue 8, pp. 833-850, 2020. **DOI: 10.2174/1573399816666200123124008. [ESCI, Scopus Indexed].**

- Vaibhav Shukla, Nikunj Sharma, **Dilip Kumar Choubey**, “Performance evaluation of a hybrid buffer based optical packet switch router”, Journal of Optical Communications, De Gruyter, ISSN: 0173-4911, ISSN: 2191-6322 (Online), Vol. 44, Issue 1, pp. 1-12, 2020. **DOI: <https://doi.org/10.1515/joc-2019-0230>. [Scopus Indexed].**
- **Dilip Kumar Choubey**, Prabhat Kumar, Sudhakar Tripathi, Santosh Kumar, “Performance Evaluation of Classification Methods with PCA and PSO for Diabetes”, Network Modeling Analysis in Health Informatics and Bioinformatics, Springer, ISSN: 2192-6662 (Print), ISSN: 2192-6670 (Online), Vol. 9, Issue 1, Article 5, pp. 1-30, 2019. **DOI: <https://doi.org/10.1007/s13721-019-0210-8> [ESCI, Scopus Indexed].**
- **Dilip Kumar Choubey**, Sanchita Paul, “GA\_RBF NN: A Classification System for Diabetes”, International Journal of Biomedical Engineering and Technology (IJBT), Inderscience, ISSN: 1752-6418 (Print), ISSN: 1752-6426. (Online), Vol. 23, No. 1, pp. 71-93, 2017. **DOI: <http://dx.doi.org/10.1504/IJBET.2017.082229>. [ESCI, Scopus Indexed].**
- **Dilip Kumar Choubey**, Sanchita Paul, “Classification techniques for diagnosis of diabetes: a review”, International Journal of Biomedical Engineering and Technology (IJBT), Inderscience, ISSN: 1752-6418 (Print), ISSN: 1752-6426. (Online), Vol. 21, No. 1, pp. 15-39, 2016. **DOI: <http://dx.doi.org/10.1504/IJBET.2016.076730>. [ESCI, Scopus Indexed].**
- **Dilip Kumar Choubey**, Sanchita Paul, “GA\_MLP NN: A Hybrid Intelligent System for Diabetes Disease Diagnosis”, International Journal of Intelligent Systems and Applications (IJISA), MECS, ISSN: 2074-904X (Print), ISSN: 2074-9058 (Online), Vol. 8, No. 1, pp. 49-59, 2016. **DOI: 10.5815/ijisa.2016.01.06. [Scopus Indexed].**
- **Dilip Kumar Choubey**, Sanchita Paul, “GA\_J48graft DT: A Hybrid Intelligent System for Diabetes Disease Diagnosis”, International Journal of Bio-Science and Bio-Technology (IJBSBT), SERSC, ISSN: 2233-7849, Vol. 7, No. 5, pp. 135–150, 2015. **DOI: 10.14257/ijbsbt.2015.7.5.13. [Scopus Indexed].**
- **Dilip Kumar Choubey**, Sanchita Paul, Joy Bhattacharjee, “Soft Computing Approaches for Diabetes Disease Diagnosis: A Survey”, International Journal of Applied Engineering Research (IJAER), RIP, ISSN: 0973-4562, Vol. 9, No. 21, pp. 11715-11726, 2014. URL: <https://www.ripublication.com/Volume/ijaerv9n21.htm>. **[Scopus Indexed].**

#### **Referred Journals (06)**

- Amit Bhandari, Mukesh Kumar Ojha, **Dilip Kumar Choubey**, Vaibhav Soni, “IoT Based System for accident detection, monitoring and landslide detection using GSM in Hilly Areas”, Special Issue in Research Reports on Computer Science, Universal Wiser Publisher, ISSN: 2811-0005 (Print), 2811-0013 (Online), Vol. 2, Issue 3, pp. 104-111, 2023. **DOI: <https://doi.org/10.37256/rrcs.2320232631>**
- Keshav Srivastava, **Dilip Kumar Choubey**, “Heart Disease Prediction using Machine Learning and Data Mining”, International Journal of Recent Technology and Engineering (IJRTE), ISSN: 2277-3878 (Online), Vol. 9, Issue 1, pp. 212-219, 2020. **DOI:10.35940/ijrte.F9199.059120.**

- Mukesh Kumar Ojha, Priyesh Tiwari, **Dilip Kumar Choubey**, Dhiraj Gupta, “Detection of SSVEP Frequency component using Filter Bank Approach for EEG Based BCI System”, *NeuroQuantology (An Interdisciplinary Journal of Neuroscience and Quantum Physics)*, AnKa, eISSN 1303-5150, Vol. 20, Issue 6, pp. 3533-3540, 2022. **DOI: 10.14704/nq.2022.20.6.NQ22359.**
- Ratnesh Kumar Dubey, Subha Mishra, **Dilip Kumar Choubey**, “Recognizing Spam Emails/SMS Using Naive Bayes and Support Vector Machines”, *Complex Systems and Complexity Science Journal*, ISSN: 1672-3813, Vol. 8, Issue 4, pp. 1-5, 2021. **DOI: <https://app.box.com/s/wcgm5irt9gz1yxjbnvfbr9xdznbw8n62>.**
- **Dilip Kumar Choubey**, Joy Bhattacharjee, Roopali Soni, “Loss Minimization of Web Databases by Fine Grain Approach”, *International Journal of Engineering Research and Applications (IJERA)*, ISSN: 2248-9622, Vol. 3, Issue 1, pp. 1437-1444, Jan-Feb 2013. **URL: [https://www.ijera.com/papers/Vol3\\_issue1/BN31437444.pdf](https://www.ijera.com/papers/Vol3_issue1/BN31437444.pdf).**
- **Dilip Kumar Choubey**, Roopali Soni, Joy Bhattacharjee, “A Novel approach for Security of Web Databases”, *International Journal of Computer Science and Technology (IJCT)*, ISSN: 0976-8491 (online) ISSN: 2229-4333(print), Vol. 3, Issue 4, pp. 110-113, Version Oct-Dec 2012. **URL: <http://ijct.com/vol34/1/dilip.pdf>.**

#### **International Conferences (37)**

- Mukesh Kumar Ojha, **Dilip Kumar Choubey**, Deepali Sharma, “IoT Based Healthcare Panic Alarm” International Conference on Sustainable Computing and Integrated Communication in Changing Landscape of AI (ICSCAI – 2024), IEEE Xplore organized by LLOYD Institute of Engineering & Technology, Greater Noida
- Rishabh Hanselia, **Dilip Kumar Choubey**, Deepali Sharma, Ashutosh Mishra, “Deep Learning Techniques in Bone Marrow Cell Classification: A Review”, 5th International Conference on Data, Engineering, and Applications (IDEA 2024), Lecture Notes in Electrical Engineering, Springer during 28-29 June, 2024 organized by School of Information Technology, Rajiv Gandhi Prodyogiki Vishwavidyalaya, Bhopal and Oriental Institute of Science and Technology, Bhopal. **[Scopus Indexed]**.
- Saurabh Ranjan, **Dilip Kumar Choubey**, “Classification of Diabetic Retinopathy using Convolutional Neural Networks and Hybrid InceptionV3 models”, Sixth International Conference on Computational Intelligence in Communications and Business Analytics (CICBA 2024), Communications in Computer and Information Science (CCIS Series), Springer during 23<sup>th</sup> – 25<sup>th</sup> January, 2024 organized by Department of Computer Science and Engineering, National Institute of Technology Patna, Bihar, India. **[Scopus Indexed]**.
- Ratnesh Kumar Dubey, **Dilip Kumar Choubey**, “Identification and Detection of Rice Plant Diseases By Using Neural Network”, 4th International Conference on Frontiers in Computing and Systems (COMSYS-2023) during 16th - 17th October 2023 Organized by School of Computing and Electrical Engineering (SCEE), Indian Institute of Technology Mandi, Himachal Pradesh, India and COMSYS Educational Trust, Kolkata, Lecture Notes in Networks and Systems, Springer, Electronic ISSN: 2367-3389 Print ISSN: 2367-3370. **[Scopus Indexed]**.
- Rajesh Kumar Singh, **Dilip Kumar Choubey**, “Alzheimer’s Dementia and its various biomarker details with several detection methodologies – A Comprehensive Review”, 14th International Conference on Cloud Computing, Data Science & Engineering



(Confluence), IEEE Xplore during 18<sup>th</sup> – 19<sup>th</sup> January, 2024 organized by Amity School of Engineering and Technology (ASET), Noida, U.P., India, Electronic ISBN: 979-8-3503-4483-7, Print on Demand (PoD) ISBN: 979-8-3503-4484-4, pp. 657-662, 2024. **DOI: <https://doi.org/10.1109/Confluence60223.2024.10463269> [Scopus Indexed].**

- Ratnesh Kumar Dubey, **Dilip Kumar Choubey**, “Rice Impact Illness Acknowledgment Employing a Profound Convolutional Neural Arrange”, 2nd Conference on Computer Vision and Machine Intelligence (IEEE CVMI 2023), IEEE Xplore during 10<sup>th</sup> -11<sup>th</sup> December 2023 organized by ABV-Indian Institute of Information Technology and Management, Gwalior, Madhya Pradesh, India, Electronic ISBN: 979-8-3503-0514-2, Print on Demand (PoD) ISBN: 979-8-3503-0515-9, pp. 1-6, 2023. **DOI: <https://doi.org/10.1109/CVMI59935.2023.10464480> [Scopus Indexed].**
- Rishabh Hanselia, **Dilip Kumar Choubey**, “A Comparative Study for Prediction of Hematopoietic Stem Cell Transplantation Related Mortality”, 6th International Conference on Innovative Computing and Communication (ICICC 2023), Proceedings in Lecture Notes in Networks and Systems (LNNS), Springer, during February 17<sup>th</sup> - 18<sup>th</sup> 2023, organized by Organized by Shaheed Sukhdev College Of Business Studies, University Of Delhi, New Delhi In Association With National Institute of Technology, Patna & University Of Valladolid Spain, Print ISBN 978-981-99-3314-3, Online ISBN 978-981-99-3315-0, Vol. 703, pp. 641-652, 2023. **DOI: [https://doi.org/10.1007/978-981-99-3315-0\\_49](https://doi.org/10.1007/978-981-99-3315-0_49) [Scopus Indexed].**
- **Dilip Kumar Choubey**, Robin Newton, Mukesh Kumar Ojha, Santosh Kumar, “Soft Computing and Data Mining Techniques for Dengue Detection: A Review”, 6th International Conference on Innovative Computing and Communication (ICICC 2023), Proceedings in Lecture Notes in Networks and Systems (LNNS), Springer, during February 17-18<sup>th</sup> 2023, organized by Organized by Shaheed Sukhdev College Of Business Studies, University Of Delhi, New Delhi In Association With National Institute of Technology, Patna & University Of Valladolid Spain, Print ISBN 978-981-99-3314-3, Online ISBN 978-981-99-3315-0, Vol. 703, pp. 295-309, 2023. **DOI: [https://doi.org/10.1007/978-981-99-3315-0\\_23](https://doi.org/10.1007/978-981-99-3315-0_23) [Scopus Indexed].**
- Amit Bhandari, Mukesh Kumar Ojha, **Dilip Kumar Choubey**, Vaibhav Soni, “IoT Based System for accident detection, monitoring and landslide detection using GSM in Hilly Areas”, 4th International Conference on Machine Learning, Image Processing, Network Security and Data Sciences MIND-2022 (Hybrid/Virtual mode), during December 21st - 22nd, 2022 organized by Department of Computer Science and Engineering Maulana Azad National Institute of Technology Bhopal, India, Special Issue in Research Reports on Computer Science, Universal Wiser Publisher, ISSN: 2811-0005 (Print) 2811-0013 (Online), Vol. 2, Issue 3, pp. 104-111, 2023. **DOI: <https://doi.org/10.37256/racs.2320232631>**
- **Dilip Kumar Choubey**, Sandeep Raj, Arju Aman, Rajat Deoli, Rishabh Hanselia, “Detection of Malaria by using a CNN Model”, 4<sup>th</sup> International Conference Machine Intelligence Signal Processing (MISP 2022), Lecture Notes in Electrical Engineering, Springer during March 12-14, 2022 in Virtual Mode held at National Institute of Technology Raipur, India. Print ISBN: 978-981-99-0084-8, Online ISBN: 978-981-99-

0085-5, Vol. 997, pp. 707-718, 2023. **DOI: [https://doi.org/10.1007/978-981-99-0085-5\\_57](https://doi.org/10.1007/978-981-99-0085-5_57) [Scopus Indexed].**

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- Venkata Manish Reddy G., Iswarya, Jitendra Kumar, **Dilip Kumar Choubey**, “Time Series Analysis of National Stock Exchange: A Multivariate Data Science Approach”, 11th International Conference on Soft Computing for Problem Solving - SocProS 2022, Lecture Notes in Network Systems, during May 14 - 15, 2022 (virtual mode) organized by Indian Institute of Technology, Mandi, Himachal Pradesh, India. Print ISBN: 978-981-19-6524-1, Online ISBN: 978-981-19-6525-8, Vol. 547, pp. 691-707, 2023. **DOI: [https://doi.org/10.1007/978-981-19-6525-8\\_53](https://doi.org/10.1007/978-981-19-6525-8_53) [Scopus Indexed].**
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- Youtube: <https://www.youtube.com/@dr.dilipkumarchoubey4070/featured>
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## SPONSORED PROJECTS

### Funded Research Project

#### 1. Title: “IoT Based Precision Farming for Unstable Indian Environment”

Funded By: TEQIP Collaborative Research Scheme, NPIU (MHRD)

Role: Co-Principal Investigator



Duration: 18<sup>th</sup> June 2019-30<sup>th</sup> Sept 2020

Budget: RS 767000/- (Rupees Seven Lakh Sixty-Seven Thousand Only)

#### **PATENT/ COPYRIGHT: FILED/PUBLISHED/GRANT (01 P + 02 C)**

- **Patent Title:** AUTOMATIC AND RELIABLE DETECTION OF BLAST DISEASE IN PADDY PLANT USING OPTIMIZED SUPPORT VECTOR MACHINE, Application No.: 202331013579, Publication Date: 10/03/2023  
**Applicant Name:** Ratnesh Kumar Dubey, **Dilip Kumar Choubey**, Arvind Choubey.  
**[Status: Published]**
- **Copyright Title:** DETECTION OF BLAST DISEASE IN PADDY PLANT USING HYBRID ARTIFICIAL NEURAL NETWORK, Application No.: L-135109/2023, Publication Date: 27/10/2023.  
**Applicant Name:** Ratnesh Kumar Dubey, **Dilip Kumar Choubey**, Arvind Choubey.  
**[Status: Grant]**
- **Copyright Title:** IMPROVING ROBUSTNESS OF LOGISTIC REGRESSION UNDER LABEL NOISE, Registration No. L-104501/2021, Publication Date 15/6/2021.  
**Applicant Name:** Ratnesh Kumar Dubey, Shubha Mishra, **Dilip Kumar Choubey**.  
**[Status: Grant]**

#### **CONDUCTED FDP/WORKSHOP'S/SEMINAR'S/CONFERENCE'S/STC (07)**

- Conducted one-week Short Term Course (STC) in hybrid mode as a **Coordinator** on title “**Machine Learning in Healthcare and Agriculture**” during 09<sup>th</sup> May – 13<sup>th</sup> May, 2024 at Indian Institute of Information Technology Bhagalpur. ([https://www.youtube.com/watch?v=HiC4cCTGiil&list=PL40sJe3\\_uRkCTxOmCoXCmlZR5WhodKZgb&pp=iAQB](https://www.youtube.com/watch?v=HiC4cCTGiil&list=PL40sJe3_uRkCTxOmCoXCmlZR5WhodKZgb&pp=iAQB))
- Conducted one-week Short Term Course (STC) as a **Coordinator** on title “**AI & IoT in Biomedical Engineering**” during 02<sup>nd</sup> May – 06<sup>th</sup> May, 2023 at Indian Institute of Information Technology Bhagalpur. ([https://www.youtube.com/watch?v=DSWtNyCVwWQ&list=PL40sJe3\\_uRkAic5qLWVrhuPDEDvubfgCb&pp=iAQB](https://www.youtube.com/watch?v=DSWtNyCVwWQ&list=PL40sJe3_uRkAic5qLWVrhuPDEDvubfgCb&pp=iAQB))
- Conducted Two-Weeks FDP as a **Coordinator** in AICTE Training And Learning (ATAL) Academy Blended/Hybrid FDP on “**Artificial Intelligence and Machine Learning in Healthcare and Agriculture**” from 12-12-2022 to 23-12-2022 at Indian Institute of Information Technology Bhagalpur, Bihar, India. ([https://www.youtube.com/watch?v=hKHnw\\_a\\_iqw&list=PL40sJe3\\_uRkCd9ykBuDFL0oeXtOdJXaMc&pp=iAQB](https://www.youtube.com/watch?v=hKHnw_a_iqw&list=PL40sJe3_uRkCd9ykBuDFL0oeXtOdJXaMc&pp=iAQB))
- Conducted one-week Short Term Course (STC) as a **Coordinator** on title “**Artificial Intelligence and Data Science in Healthcare**” during 03<sup>rd</sup> May – 07<sup>th</sup> May, 2022 at Indian Institute of Information Technology Bhagalpur. ([https://www.youtube.com/watch?v=LnjVWVemFPQ&list=PL40sJe3\\_uRkBsDNifHv2QjbYlXggxEWwL&pp=iAQB](https://www.youtube.com/watch?v=LnjVWVemFPQ&list=PL40sJe3_uRkBsDNifHv2QjbYlXggxEWwL&pp=iAQB))

- Conducted one week Faculty Development Program (FDP) as a **Coordinator** on title “**Communication Networks and Machine Learning**”, from 18<sup>th</sup> January – 22<sup>nd</sup> January, 2021 at Indian Institute of Information Technology Bhagalpur.
- Conducted one week Faculty Development Program (FDP) as a **Coordinator** in associations with Electronics and ICT Academy, National Institute of Technology Patna on title “**Machine Learning and Deep Learning Techniques with its Applications**”, from 10-12-2019 to 14-12-2019 at Vellore Institute of Technology, Vellore.
- Conducted Half day Faculty Development Program (FDP) as a **Coordinator** in associations with Academic Staff College (ASC) on title “**Reinforcement Learning (Introduction, Q-Learning, and SARSA algorithm) and hands on session**”, held on 09-12-2019 from 10.00 AM to 13.00 PM at Vellore Institute of Technology, Vellore.

#### **INVITED/EXPERT TALK IN FDP/WORKSHOP/SEMINAR/CONFERENCE/STC (16)**

- Delivered an expert lecture on 11<sup>th</sup> May, 2024 in a one-week Short-Term Course on “**Machine Learning in Healthcare and Agriculture**” (Hybrid Mode) during 09<sup>th</sup> - 13<sup>th</sup> May, 2024 organized by Department of Computer Science & Engineering, Indian Institute of Information Technology Bhagalpur, Bihar.
- Contributed as Resource person in online mode at VIT Chennai, Tamil Nadu in one week FDP title “Internet of Things with Machine Learning and Artificial Intelligence: A Hands-on Session” during 5<sup>th</sup> Feb 2024 to 9<sup>th</sup> Feb 2024
- Delivered a talk in online mode at GITAM (Deemed to be University) Vishakhapatnam, A.P in one Week FDP title “**AI & Machine Learning for Computer Vision Applications**” in associations with E&ICT Academy, Indian Institute of Technology Roorkee (IIT Roorkee), Uttarakhand, India during 18-12-2023 to 22-12-2023.
- Delivered an expert lecture on 06<sup>th</sup> May, 2023 in a one week Online Short-Term Course on “**AI & IoT in Biomedical Engineering**” during 02<sup>nd</sup> -06<sup>th</sup> May, 2023 organized by Department of Computer Science & Engineering, Indian Institute of Information Technology Bhagalpur, Bihar.
- Contributed as Resource person in AICTE Training And Learning (ATAL) Academy Blended/Hybrid FDP on “**Artificial Intelligence and Machine Learning in Healthcare and Agriculture**” from 12-12-2022 to 23-12-2022 at Indian Institute of Information Technology Bhagalpur, Bihar, India.
- Delivered an expert lecture on 07<sup>th</sup> May, 2022 in a one week Online Short-Term Course on “**Artificial Intelligence and Data Science in Healthcare**” during 03<sup>rd</sup> -07<sup>th</sup> May, 2022 organized by Department of Computer Science & Engineering, Indian Institute of Information Technology Bhagalpur, Bihar.
- Delivered an expert session as a guest speaker on “**Supervised Learning Classification**” under SAGE Talk Series on 18<sup>th</sup> January, 2022 at SAGE.
- Delivered an expert talk in **Webinar** on “**Classification for Medical Diseases**” at 24<sup>th</sup> December, 2021 organized by Department of MCA, BIST Bhopal.
- Contributed as Resource Person in AICTE Training And Learning (ATAL) Academy Online Elementary FDP on “**Role of IOT in Cyber Security**” from 29/11/2021 to 03/12/2021 at Lakshmi Narain College of Technology, Bhopal.

- Contributed as Resource Person in AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "**Recent Trends in Artificial Intelligence**" from 29/11/2021 to 03/12/2021 at Lakshmi Narain College of Technology, Bhopal.
- Invited Speaker and delivered a speech on "**Classification for Medical Diseases**" in the online National FDP, "**Latest Trends in Computer Science Education & Research (LTCSER – 2021)**" organized by the Department of Computer Science & IT, Amity Institute of Information Technology, Amity University Jharkhand, Ranchi, from 26th to 30th July 2021.
- Contributed as a resource person in in One Week Online AICTE-ISTE Sponsored Induction/Refresher Programme on "**The Impact of Faculty Development on Teaching Skills and Research Scholars for Technical Perspectives (Phase II)**" during 23<sup>rd</sup> to 31<sup>st</sup> March 2021 at Sri Satya Sai University of Technology & Medical Science, Sehore, Bhopal (M.P.)
- Contributed as a resource person in One Week Virtual FDP title "**Communication Networks and Machine Learning**", during 18<sup>th</sup> January – 22<sup>nd</sup> January, 2021 at Indian Institute of Information Technology Bhagalpur, Bihar.
- Delivered a talk (Hands on Sessions) on "**Machine Learning by using WEKA**" at Vellore Institute of Technology, Vellore in one Week FDP title "**Machine Learning and Deep Learning Techniques with its Applications**" associations with E&ICT Academy, National Institute of Technology, Patna during 10-12-2019 to 14-12-2019.
- Delivered a talk (Hands on Sessions) on "**Building a Collaborative Recommendation**" at Vellore Institute of Technology, Vellore in one Week FDP title "**Machine Learning and Deep Learning Techniques with its Applications**" associations with E&ICT Academy, National Institute of Technology, Patna during 10-12-2019 to 14-12-2019.
- Delivered a talk on "**Cloud Computing**" in National Conference on "**Emerging Trends in Information Technology**" held on 17th August 2013, organized by the Department of Information Technology, Lakshmi Narain College of Technology, Bhopal.

#### **SPECIAL SESSION ORGANIZED/HOST/CHAIR IN CONFERENCES (10)**

- Chairing Session Chair in the International Conference on Intelligent Systems & Computation (ICISC) organized by Poornima Institute of Engineering & Technology, Jaipur on April 24-25, 2024
- Chairing Session in Computational Intelligence in Communications and Business Analytics (CICBA 2024), Communications in Computer and Information Science (CCIS Series), Springer dated 23<sup>th</sup> – 25<sup>th</sup> January, 2024 organized by Department of Computer Science and Engineering, National Institute of Technology Patna.
- Chairing session in International Conference on Disruptive Technologies (ICDT – 2023) dated 11<sup>th</sup> – 12<sup>th</sup> May, 2023 organized by Department of Computer Science & Engineering, G. L. Bajaj Institute of Technology & Management, Greater Noida, (U.P.), India.
- Chairing session in Three Days IEEE International Conference on Artificial Intelligence and Smart Communication (AISC-2023) dated 27<sup>th</sup> – 29<sup>th</sup> January, 2023 organized by G. L. Bajaj Institute of Technology & Management, Greater Noida, (U.P.), India.

- Chairing Session in (**Machine Learning & Computational Intelligence**) at the 4<sup>th</sup> International Conference on Machine Learning, Image Processing, Network Security and Data Sciences MIND-2022 (Hybrid/Virtual mode), Proceedings in Communications in Computer and Information Science (CCIS) Series, Springer during December 21st - 22nd, 2022 organized by Department of Computer Science and Engineering Maulana Azad National Institute of Technology Bhopal, India.
- Chairing session in **Congress on Smart Computing Technologies (CSCT 2022)** during December 11-12, 2022 organized by Soft Computing Research Society technically sponsored by SAU Centre for Research and Innovative Learning (SCRIL), South Asian University, India.
- Chairing session on **“Disease Progression on Severity Prediction”** at the 4<sup>th</sup> International Conference on Machine Intelligence and Signal Processing (MISP 2022) organized by the Department of Computer Science and Engineering, National Institute of Technology Raipur, India during March 12<sup>th</sup> – 14<sup>th</sup>, 2022 (In Virtual Mode).
- Organized Special Session on **“Data Science and Machine Learning”**, 4<sup>th</sup> International Conference on Machine Intelligence and Signal Processing (MISP 2022) organized by the Department of Computer Science and Engineering, National Institute of Technology Raipur, India during March 12<sup>th</sup> – 14<sup>th</sup>, 2022 (In Virtual Mode) Proceedings will be published in Springer Book Series “Lecture Notes in Electrical Engineering (LNEE)”. <https://misp2022.nitr.ac.in/> [**Scopus Indexed**].
- Chairing session on **“Artificial Intelligence in Security System”** in the Fourth International Conference on Information Systems and Management Science (ISMS 2021) Jointly organized by the faculty of ICT, University of Malta, Malta & Department of Computer Science and Engineering, National Institute of Technology, Raipur, India during December 14-15, 2021 (in Virtual Mode).
- Organized Special Session on **“Artificial Intelligence and Data Science”**, 4<sup>th</sup> International Conference on Information Systems and Management Science (ISMS 2021), Jointly organized by the Department of Computer Science and Engineering, National Institute of Technology Raipur, India & Faculty of ICT, University of Malta, Malta during December 14-15, 2021 (In Virtual Mode), Proceedings will be published in Springer Book Series “Lecture Notes in Networks and Systems (LNNS Series)”. [**Scopus Indexed**].

## **REVIEWED IN JOURNALS/CONFERENCES/BOOK/BOOK CHAPTERS**

- Computers and Electrical Engineering, Elsevier
- Medical & Biological Engineering & Computing, Springer
- Multimedia Tools and Applications, Springer
- Network Modeling Analysis in Health Informatics and Bioinformatics, Springer
- International Journal for Numerical Methods in Biomedical Engineering, Wiley
- Knowledge and Information Systems, Springer
- Statistical Applications in Genetics and Molecular Biology (SAGMB), De Gruyter
- IEEE Access
- Current Bioinformatics, Bentham Science
- IETE Journal of Research, Taylor Francis

- International Journal of Intelligent Robotics and Applications (JIRA), Springer
- ETRI Journal, Wiley
- Health and Technology, Springer
- Statistical Applications in Genetics and Molecular Biology, De Gruyter
- BMC Medical Informatics and Decision Making, Springer
- International Journal of Grid and Utility Computing, Inderscience
- Reviewer in Conferences of DICCT 2024, CICBA 2024, ICCTE 2023, CRM 2023, ICDT – 2023, DICCT 2023, WCAIAA 2023, MIND 2022, ICIoTCT 2022, SocPros 2022, ICDSAI 2022, MISP 2022, SoCTA 2020, FRSM 2020.
- Reviewed Book title “Fundamentals of Database Management Systems, 3<sup>rd</sup> Edition, Wiley by Mark L. Gillenson.
- Reviewed Chapters in Edited Book, “CCAB 2022”, “Industrial Internet of Things: Technologies and Research Directions”, “Encyclopedia of Organizational Knowledge, Administration, and Technology”, “Machine Learning and Deep Learning in Real – Time Applications”, “Handbook of Research on Advancements of Artificial Intelligence in Healthcare Engineering”.

#### **COMPLETED/ ATTENDED CERTIFICATION’S IN FDP/ WORKSHOP’S/STC**

- Successfully Completed AICTE Training And Learning (ATAL) Academy Blended/Hybrid FDP on “Artificial Intelligence and Machine Learning in Healthcare and Agriculture” from 12-12-2022 to 23-12-2022 at Indian Institute of Information Technology Bhagalpur, Bihar, India.
- Successfully Completed a course of 7 Weeks on title “Machine Learning: Classification”, Coursera by a MOOC from the University of Washington on July 2, 2020.
- Attended Faculty Orientation Program (FOP) conducted by Academic Staff College of Vellore Institute of Technology, Vellore, India, during 13 May 2019 – 31 May 2019.
- Attended Two Weeks Course on Introduction to Data Structures and Programming in C jointly organized by the E&ICT Academies, National Institute of Technology Patna from 1st July-10th July, 2017.
- Attended in a three-day International Workshop on Pattern Analysis and Applications organized by Computer Vision and Pattern Recognition Unit, Indian Statistical Institute, 18-20 January, 2017 at Indian Statistical Institute, Kolkata.
- Attended in a one-week National Workshop on Wireless Network Simulation Using NS2/NS3 (WNS 2016) Organized by Department of Computer Science Engineering, Birla Institute of Technology, Mesra, Ranchi, Jharkhand Sponsored by TEQIP II during October 13-18, 2016.
- Attended in a one-week National Workshop on Evolutionary Optimization for Engineering and Scientific Applications (EOESA 2016) Organized by Department of Computer Science Engineering, Birla Institute of Technology, Mesra, Ranchi, Jharkhand Sponsored by TEQIP II during October 03-07, 2016.
- Attended in a one-week National Workshop on Intelligent Computational Technique Applications Organized by Department of Electrical & Electronics Engineering, Birla Institute of Technology, Mesra, Ranchi, Jharkhand & Sponsored by Jharkhand Council of Science & Technology, Ranchi during November 23-27, 2015.

- Attended in a one-week course on Fundamentals of Soft Computing and Its Applications organized by the Indian School of Mines, Dhanbad during 09-09-2015 to 13-09-2015.
- Attended TEQIP II Sponsored one-week Faculty Development Programme on Optimization Techniques using Nature Inspired Algorithms for Engineering Applications (19-23 Jan. 2015) Organized by Department of Computer Engineering Rajasthan Technical University, Kota, Rajasthan.
- Attended in a Workshop on Soft Computing and Applications (SCA'14) jointly organized by the Centre for Soft Computing Research (CSCR), ISI, Kolkata and JSS Academy of Technical Education, Noida during September 02-04, 2014.
- Attended “International Conference on Cloud, Big Data and Trust” (ICCBTD-2013) supported by TEQIP-II, November 13-15, 2013 at Rajiv Gandhi Pradyogiki Vishwavidyalaya (State Technological University of MP) Bhopal, India.
- Attended in a Two Week ISTE Workshop on Database Management Systems Conducted by Indian Institute of Technology Bombay from 21-31 May, 2013.

### **MEMBERSHIP OF PROFESSIONAL BODIES**

- The Institution of Electronics and Telecommunication Engineers (IETE) New Delhi, Fellow (Life Time), Membership Number: F-504062
- IEEE Member, Membership Number is: 98022544
- The International Association of Engineers (IAENG), Member (Life Time), Member Number: 170186.
- The Internet Society Switzerland (ISOC), Member (Life Time), Member Number: 132337.
- The Society of Digital Information and Wireless Communications (SDIWC), Member (Life Time), Member Id: 16400.

### **CURRENT ADMINISTRATIVE RESPONSIBILITY**

- Boys Hostel Warden 02 from 01-09-2022.
- Faculty In-Charge of “Computer Centre” from 19-07-2022.
- Faculty In charge of “Computer Systems” lab from 08-03-2021 till date.
- Member and Indentors of the Departmental Purchase Committee, CSE, IIIT Bhagalpur.

### **PAST ADMINISTRATIVE RESPONSIBILITY**

- Faculty adviser for PG (M. Tech) of Computer Science & Engineering Department from 24-08-2021 to 12-07-2024.
- Faculty Advisor for undergraduate students (2020-2024) batch of Computer Science & Engineering Department from 10-12-2020 to 12-07-2024
- M.Tech (Computer Science and Engineering – Specialization in AI & ML), Year Coordinator at Vellore Institute of Technology, Vellore, Tamil Nadu.


### **PERSONAL DOSSIER**

Date of Birth : 26-01-1988.  
 Father's Name : MR. P. N. Choubey.  
 Hobbies / Area of Interest : Watching & Playing Cricket, Writing diary, Internet Surfing.

Permanent Address : Plot No. 1078, New colony, Rehla, Bisrampur, Palamu, Pin Code - 822124, Jharkhand

**DECLARATIONS**

I hereby declare that the above-mentioned information is correct up to my knowledge and I bear the responsibility for the correctness of the above-mentioned particulars.



**Place : Bhagalpur**

**(Dr. DILIP KUMAR CHOUBEY)**