Name:Dr. Dhruba Jyoti KalitaDesignation:Assistant ProfessorBranch:Computer Science & Engineering



Educational Qualification(s):

| Qualification(s) | University |
|---------------------------------------|----------------------------------|
| B.E. (Computer Science & Engineering) | Visvesvaraya Technological |
| | University (VTU), Belgaum |
| M.Tech, (Computer Technology & | National Institute of Technical |
| Applications) | Teachers' Training and Research |
| | (NITTTR), Bhopal |
| Ph.D (Computer Science & Engineering) | National Institute of Technology |
| | (NIT), Jamshedpur |

Other Qualifications:

- ➢ GATE-2014 Qualified with GATE.
- > Diploma in .NET Technologies from NIIT (2011)

Experience in years:

Academic:

- Worked as Assistant Professor (CSE) under NPIU (National Project Implementation Unit, TEQIP-III) at Gaya College of Engineering, Gaya (6 years)
- Worked as Assistant Professor (CSE) at Indus International University (IIU), VPO ,Bathu, Tehsil Haroli, District-Una (6 Months)
- Worked as Assistant Professor (CSE) at Dr. K.N. Modi University, Newai, Rajasthan (1 Year 2 Months)
- Worked as a Faculty Member at Asian InfoTech Computer Education (DOEACC 'O' & 'A' Level Accr. Center, Govt. of India, AICTE Approved), Guwahati (1 Year)

• Worked as a Technical Trainer in a program sponsored by Welfare of Plain Tribes (Govt. of Assam), Guwahati (1 Year)

Industrial:

• Worked for Nokia Siemens. (1.2 years)

Patents and Projects:

- Published one Patent on "Method for Designing Dynamic Frame Work for Tuning SVM Hyper Parameters based on Moth-Flame Optimization and Knowledge-Based-Search." [Application Number: 202031014705]
- Worked on a project under Collaborative Research Scheme (CRS) named "Content-Based Image Retrieval System Assisted by Mammogram Classification for the Diagnosis of Breast Cancer" funded by AICTE as Principal Investigator (PI) [Sanction Amount: Rs. 7,30,000].

Publications:

- Dhruba Jyoti Kalita, Vibhav Prakash Singh, and Vinay Kumar. "A Dynamic Framework for Tuning SVM Hyper Parameters based on Moth-Flame Optimization and Knowledge-Based-Search." *Expert Systems with Applications (2020)*: 114139. [SCIE, Impact factor: 8.665]
- Dhruba Jyoti Kalita, Vibhav Prakash Singh, and Vinay Kumar. "A Noval Adaptive Optimization Framework for SVM hyper-parameters tuning in non-stationary environment: A Case Study on Intrusion Detection System" *Expert Systems with Applications (2020)*: 114139. [SCIE, Impact factor: 8.665]
- Dhruba Jyoti Kalita, Vibhav Prakash SinghandVinay Kumar. Two-way thresholdbased intelligent water drops feature selection algorithm for accurate detection of breast cancer. Soft Computing, 1-29. [SCIE, Impact factor: 3.643]
- Dhruba Jyoti Kalita and Shailendra Singh. "SVM Hyper-parameters optimization using quantized multi-PSO in dynamic environment." *Soft Computing* 24.2 (2020): 1225-1241. [SCIE, Impact factor: 3.643]

- Dhruba Jyoti Kalita, Vibhav Prakash SinghandVinay Kumar. "A Lightweight Knowledge-Based PSO for SVM Hyper-Parameters Tuning in a Dynamic Environment."*The Journal of Supercomputing (2023)*: 1-23 [SCIE, Impact factor: 2.557]
- Dhruba Jyoti Kalita, Vibhav Prakash SinghandVinay Kumar (2021). "Detection of Breast Cancer Through Mammogram Using Wavelet-Based LBP Features and IWD Feature Selection Technique". SN Computer Science (2022), Springer[Scopus]
- Dhruba Jyoti Kalita, Vibhav Prakash Singh, and Vinay Kumar. "SVM Hyper-Parameters Optimization using Multi-PSO for Intrusion Detection." Social Networking and Computational Intelligence. Springer, Singapore, 2020. 227-241. (Scopus)
- Dhruba Jyoti Kalita, Vibhav Prakash Singh, and Vinay Kumar. "A Survey on SVM Hyper-Parameters Optimization Techniques." Social Networking and Computational Intelligence. Springer, Singapore, 2020. 243-256. (Scopus)
- Abhishek Kumar, Dhruba Jyoti Kalita, and Vibhav Prakash Singh. "A Modern Pothole Detection technique using Deep Learning." 2nd International Conference on Data, Engineering and Applications (IDEA). IEEE, 2020. (IEEE)
- Vibhav Prakash Singh, Dhruba Jyoti Kalita, and Shashank Tripathi. "Classifying Gene Expression Data of Cancer Using Multistage Ensemble of Neural Networks." Available at SSRN 3349578 (2019).
- Chakrapani, Sumit Raj, Vibhav Prakash Singh and Dhruba Jyoti Kalita. "Detection of Chronic Kidney Disease Using Artificial Neural Network", International Conference – ICRAMSTEL(2019)
- Surendra Kumar Dr Harsh Kumar, and Dhruba Jyoti Kalita. "Sentiment Analysis in Today's Trend: A Review." International Journal of Engineering and Computer Science 6.4 (2017).
- Chakrapani, Abhishek, Vibhav Prakash Singh and Dhruba Jyoti Kalta." Chronic Kidney Disease Detection using Random Forests and Eigenvectors Based Feature Selection", International Conference- AISCC- 2020 (Springer)

Certificates:

- "Core Teaching Skills for PG Students" at National Institute of Technical Teachers' Training and Research, Bhopal (Ministry of Human Resources, Govt. of India) (2016)
- "Faculty Induction Program" at IIT, Kanpur (20/01/2018 to 24/01/2018)
- "Summer Training Program on Advanced Pedagogy & Digital Tools "at IIT, Kanpur (10/06/2019 to 14/06/2019)
- "Professional Development Training Programme for Faculty & Administrators of Project Institutions of Technical Education Quality Improvement Programme-III (TEQIP-III)" at IIM, Visakhapatnam (26/11/2020 to 28/11/2020)
- Faculty Development Program on "Research Methodology" (NPIU) at Gaya College of Engineering (07/01/2019 to 11/01/2019)
- "Outcome based Accreditation for Engineering Programs" at Gaya College of Engineering (09/03/2018 to 10/03/2018)
- "In-house Training Program of NBA Accreditation (by NITTTR, Kolkata)" at Gaya College of Engineering (19/03/2018 to 23/03/2018)
- TEQIP-III Sponsored Five Days National Workshop on "Alternate Sources of Energy Scope & Impact" (04/02/2019 to 08/02/2019)
- "Training Program on Big Data Hadoop" at Indus International University (14/11/2017)
- "FDP on Network Security" jointly organized by Electronics & ICT Academies (20/05/2019 to 24/05/2019)
- FDP on "Antenna Trends" jointly organized by Electronics & ICT Academies (01/07/2019 to 05/07/2019)