

## ASSOCIATE PROFESSOR



### DR. AMIT KUMAR

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### RESEARCH INTERESTS:

DATA MINING, MACHINE LEARNING,  
SOFT COMPUTING

### EXPERIENCE:

**Academics:** 14 Years

**Research:** 5 Years

### EDUCATION:

PhD (CSE)

M.Tech

### Courses Taught:

Compiler Design, Machine Learning, Data Structures, Database Management System, Soft Computing, Design & Analysis of Algorithm

### Projects Handled:

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### Research Publications:

#### JOURNALS:

- Amit Kumar, B.K Sarkar “A Hybrid Predictive Model Integrating C4.5 and Decision Table Classifiers for Medical Data Sets” Journal of Information Technology Research (JITR), Vol.-11, Issue-2, pp.150-167, IGI Global, Scopus and ESCI Indexed, 2018, I.F-0.3
- Amit Kumar, B.K.Sarkar “Performance analysis of GA-based Iterative and Non-iterative Learning Approaches for Medical Domain Data Sets” International Journal on Intelligent Decision Technologies, Vol.-11, Issue-3, pp. 321-334, IOS Press, Scopus and ESCI Indexed, 2017, I.F-0.6
- Amit Kumar, Dr.B.K.Sarkar “A Case Study on Machine Learning and Classification” International Journal of Information and Decision Science, Inderscience, Vol. 3, No. 2, pp. 179-208, Scopus Indexed, 2017.

- Amit Kumar, ParthArora, HarshitRai, Manish Kumar, ChandramohanDhasarathan, “Enhancing security of IoT powered Supply Chain Management using Block chain” International Journal of Creative Computing, Inderscience, 2(1), pp.73-86, 2023.
- Amit Kumar, B.K.Sarkar “Performance Analysis of Some Competent Learners on Medical Data: Using GA-Based Feature Selection Approach” International Journal of Knowledge-Based Organizations (IJKBO), Volume 11, Issue 1, Article 3, pp. 29-49, IGI Global, 2021.
- Amit Kumar, B.K.Sarkar “Performance assessment of learning algorithms on multi-domain data sets” International Journal of Knowledge Discovery in Bioinformatics (IJKDB-2018-10), Vol.-8, Issue-1, pp. 27-41, ACM Digital Library, 2018.
- Amit Kumar “Utility of Rough Set Theory In Real Life Problems”. Proceedings of IT FLOOR, A Journal Mapping Lanes of Information Technology, B.R.A. University, Muzafferpur, Bihar. Vol.-III, Dec, 2014, (ISSN 2277-9639).
- Amit Kumar, Santosh Kumar, Manoj Kumar “A Comparative Study of Cloud Computing Over Grid Computing”. VSRD International Journal Of Computer Science and Information Technology, Vol.-III, June, 2013 (e-ISSN:2231-2471, p- ISSN:2319-2224).

#### **CONFERENCES:**

- Amit Kumar, B.K.Sarkar “GA\_DTNB: A Hybrid Classifier for Medical Data Diagnosis” 6th International Conference on Frontiers in Intelligent Computing Theory and Applications (FICTA-2018). KIIT, Bhubhaneswar. Springer, Scopus indexed.
- Amit Kumar “Use of DNA computing in Arithmetic and Logic Operation”, IEDES International Conference 2009 at BRCMCET.

#### **BOOKCHAPTERS:**

- Kumar, A., & Kar, B. (2025). “Intelligent Automation Systems (IAS) and Its Application in Neuroscience”, Handbook of Intelligent Automation Systems Using Computer Vision and Artificial Intelligence, pp. 423-447, John Wiley & Sons, Inc (Scopus).
- Kumar, A., & Kar, B. (2025), “Trust, Interpretability, and Explainability for Ensuring 5G-Enabled Smart City Security”, 5G - Enabled Technology for Smart City and Urbanization System, CRC Press, Taylor and Francis Group. pp.146-162, (Scopus).
- Kumar, A., & Kar, B. (2024), “Smart AgriTech: Sensors & Networks”, Smart AgriTech: Potential of Robotics, AI, and Internet of Things (IoT) in Agriculture, Wiley-Scrivener, pp. 227-259, (Scopus).
- Kumar, A., & Sarkar, B. K. (2021). Performance Analysis of Nature-Inspired Algorithms-Based Bayesian Prediction Models for Medical Data Sets. In Research Anthology on Multi-Industry Uses of Genetic Programming and Algorithms, IGI Global, pp. 874-895.

- Kumar, A., Kumar, M., &Nidhya, R. (2021). ACO\_NB-Based Hybrid Prediction Model for Medical Disease Diagnosis. In Handbook of Research on Disease Prediction Through Data Analytics and Machine Learning (pp. 526-536). IGI Global,(Scopus).

**Additional Responsibilities:**

NBA and NAAC Team

**Awards Obtained:**

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