Pradipta Kumar Pattanayak, Ph.D.

Designation: Associate Professor

Department: Department of Computer Science and Engineering

(JOINED THE INSTITUTE IN 2003)

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RESEARCH INTERESTS

- ✓ Machine Learning
- ✓ Text Mining
- ✓ Financial Data Analysis
- ✓ Topic Modeling of Social Network Text

ACADEMIC QUALIFICATIONS:

Ph.D., Engineering, Biju Patnaik University of Technology, India

M.Tech. Computer Science and Engineering, Utkal University, Bhubaneswar, India

TEACHING AND INDUSTRY EXPERIENCE:

- ✓ 19 years of teaching experience
- ✓ 3 years of Industrial Experience (Virtusa India Pvt. Ltd. Hyderabad, Persistent System Pvt. Ltd., Pune, IBM Bangalore)

PUBLICATIONS

JOURNAL ARTICLES:

[1]. **P. K. Pattanayak**, R. M. Tripathy, and S. Padhy, "*A semi-supervised approach of cluster-based topicmodeling for effective tweet hashtag recommendation*" SN Computer Science, vol. 5, p. 951, Sep. 2024. doi: https://doi.org/10.1007/s42979-024-03299-x.

[2]. **P. K. Pattanayak**, R. M. Tripathy, and S. Padhy, "*A semi-supervised approach of short text topic modeling using embedded fuzzy clustering for twitter hashtag recommendation*," Discover Sustainability, vol. 5, Apr. 2024. doi: 10.1007/s43621-024-00218-1.

[3]. **P. K. Pattanayak**, R. M. Tripathy, and S. Padhy, "*A novel heuristic for graph-based topic modeling using spectral clustering*," Journal of Theoretical and Applied Information Technology, vol. 102, pp. 664–672, Jan.2024.

CONFERENCE PAPERS:

[1]. **P. K. Pattanayak** and D. Acharya, "*A comparative study of regression methods for predicting familyhealth insurance expenses*" in 2025 International Conference on Ambient Intelligence in Health Care(ICAIHC), IEEE, 2025, pp. 1–6. doi: 10.1109/ICAIHC64101.2025.10956933

[2]. **P. K. Pattanayak**, R. M. Tripathy, and S. Padhy, "*Unveiling healthcare insights through graph-based topic modeling*" in Xavier International Conference on Artificial Intelligence, Xavier press, 2024.

[3]. M. R. Senapati, **P. K. Pattanayak**, S. N. Dehuri, P. K. Dash, and G. Panda, "*A genetic programmingapproach for training radial basis functional neural networks*" in ICSCI, Conference, 2006, pp. 683–687.

SKILLS:

SUBJECT EXPERTISE :

- Design and Analysis of Algorithm(DAA)
- Machine Learning
- Data Structure
- Operating System
- Soft Computing.
- Programming in C
- OOPsusing C++
- OOPsusing Java
- Unix System Programming
- Python Programming
- R Programming

ANY OTHER