Nayan Ranjan Paul, M.Tech.

Designation : Assistant Professor

Department : Department of Computer Science and Engineering

(JOINED THE INSTITUTE IN 2022)

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RESEARCH INTERESTS

Natural Language Processing:
- ✓ Application of machine learning in crisis situations.
- ✓ Analyzes social media communications during time-critical situations using techniques such as data mining, machine learning, and deep neural networks.
- ✓ Information retrieval from social media posts
- ✓ Sarcasm detection using deep learning
- ✓ Sentiment analysis
- ✓ Machine translation

Academic Qualifications

Ph. D. (Cont.), IIIT Bhubaneswar, India

M. Tech. (CSE, IIIT Bhubaneswar, India

MCA, KIIT Deemed to be University, Bhubaneswar, India

Teaching Experience/Industrial Experience/Research Experience

- ✓ Teaching Experience: 13 years
- ✓ Research Experience: 3 years

PUBLICATIONS

JOURNAL& CONFERENCES

[1]. **Nayan Ranjan Paul**, Deepak Sahoo, Rakesh Chandra Balabantaray, "Classification of crisis-related data on Twitter using a deep learning-based framework", Multimedia Tools and Applications (2022), DOI : 10.1007/s11042-022-12183-w.

[2]. Deepak Sahoo, **Nayan Ranjan Paul**, Rakesh Chandra Balabantaray, Asif Uddin Khan, "Sarcasm Detection Using Deep Learning," 2021 19th OITS International Conference on Information Technology (OCIT), 2021, pp. 331-335, DOI:10.1109/OCIT53463.2021.00072.

[3]. **Nayan Ranjan Paul**, M. Sahoo, S. K. Hati and T. Sahoo, "Detecting Disaster Related Tweets Using Hybrid Deep Neural Network Models," 2021 International Conference on Advances in Technology, Management & Education (ICATME), 2021, pp. 71-76, DOI: :10.1109/ICATME50232.2021.9732732.

[4]. **Nayan Ranjan Paul**, Rakesh Chandra Balabantaray, "Detecting Crisis Event on Twitter Using Combination of LSTM, CNN Model", In Annual Convention of the Computer Society of India, pp. 71-80, Springer, Singapore, 2020.

[5]. Ashok Kumar Das, **Nayan Ranjan Paul**, Laxminath Tripathy, "Cryptanalysis and Improvement of an Access Control in User Hierarchy Based on Elliptic Curve Cryptosystem" in Information Science (Elsevier), 2012, DOI : 10.1016/j.ins.2012.04.036.

[6]. **Nayan Ranjan Paul**, Laxminath Tripathy and Pradipta Kumar Mishra, "Analysis and Improvement of DSDV Protocol", International Journal of Computer Science Issues (IJCSI), Vol. 8. No. 5, September 2011.

[7]. Laxminath Tripathy and **Nayan Ranjan Paul**, "An Efficient and Secure key Management Scheme for Hierarchical Access Control Based on ECC", International Journal for Communication Network and Security, Vol. 1, No. 2, 2011.

ANY OTHER

✓ Cleared **UGC NET** held on June, 2015 in the subject **Computer Science and Application.**

Certification Courses

[1]. Completed National Programme on Technology Enhanced Learning **(NPTEL)** online certification course on **"Data Analytics with Python"**.

[2]. Completed National Programme on Technology Enhanced Learning **(NPTEL)** online certification course on **"Deep Learning"**.

[3]. Completed National Programme on Technology Enhanced Learning **(NPTEL)** online certification course on **"Introduction to Machine Learning"**.

[4]. Completed National Programme on Technology Enhanced Learning **(NPTEL)** online certification course on **"Practical Machine Learning with Tensorflow"**.

[5]. Completed National Programme on Technology Enhanced Learning **(NPTEL)** online certification course on **"Python for Data Science"**.

[6]. Completed National Programme on Technology Enhanced Learning **(NPTEL)** online certification course on **"Programming, Data Structures and Algorithms Using Python"**.

[7]. Completed National Programme on Technology Enhanced Learning **(NPTEL)** online certification course on **"Joy of Computing Using Python"**.

[8]. Completed online certification course offered by IITBombayX, an online learning initiative of the Indian Institute of Technology Bombay on **"LaTeX for Students, Engineers, and Scientists"**.

[9]. Completed **"Transfer Learning for NLP with TensorFlow Hub"** an online course authorized by Coursera Project Network and offered through Coursera.

[10]. Completed **"Fine Tune BERT for Text Classification with TensorFlow"** an online course authorized by Coursera Project Network and offered through Coursera.

Conferences attended

1. 19th OITS International Conference on Information Technology (OCIT), 2021
2. International Conference on Advances in Technology, Management & Education (ICATME), 2021
3. 53rd CSI-2020 Annual Convention of Computer Society of India