ASHISH RANJAN

Assistant Professor- Computer Science and Engineering
Indian Institute of Information Technology Sonepat, India,
Mobile no. : +917992369756
Email ID: aranjan@iiitsonepat.ac.in
ashishranjan28@gmail.com

Objective: To be associated with an organization with a professional environment to enhance my skills and upgrade myself to the highest levels of proficiency while enabling the organization to achieve its target and growth and allow me to put my current education to practical use.

EDUCATION

- **Ph.D.** from Indian Institute of Technology (BHU), Varanasi, India.
  Discipline: Natural Language Processing (NLP)/Computational Linguistics (CL)
  Specialization: Computation of some aspects of language processing in the brain using machine learning: An fMRI Study.
  Research Area: Machine learning, Deep learning, Natural Language Processing
  M.Tech from National Institute of Technology, Patna, Bihar in Computer Science and Engineering with 7.36 CGPA duration 2011 to 2013.
  Discipline: Computer Science and Engineering (CSE)
  Specialization: Angle-Based Localization System for Wireless Sensor Networks.
- **B. Tech** in Computer Science and Engineering from IEC College of Engineering and Technology Greater Noida, Uttar Pradesh Technical University (UPTU), Aggregate Score: 63.54%. Session July 2006 to 2010.
- **XIIth** SBS Inter College Sani Basant Pur, Siwan India in Bihar Intermediate Education Council with aggregation of 75% in 2000. Subjects: Physics, Chemistry, Mathematics, Hindi, and English
- **Xth** Jawahar Navodaya Vidyalaya Siwan India in Central Board of Secondary Education (CBSE) with aggregation of 73.2% in 1998. Subjects: Mathematics, Social Science English, Science, and Hindi.

PUBLICATIONS

JOURNALS

- **Ranjan, A.,** Singh, V. P., Mishra, R. B., Thakur, A. K., & Singh, A. K. (2021). Sentence polarity detection using stepwise greedy correlation-based feature selection and random forests: an fMRI study. Journal of Neurolinguistics**,** Volume 59, 2021,100985, ISSN 0911-6044, https://doi.org/10.1016/j.jneuroling.2021.100985.
- **Ranjan, A.**, Singh, V.P., Singh, A.K., Thakur, A.K., Mishra, R.B. (2020). Classifying brain state in sentence polarity exposure: An ANN model for fMRI data. Revue d'Intelligence Artificielle, Vol. 34, No. 3, pp. 361-368. https://doi.org/10.18280/ria.340315
- **Ranjan, A**., Singh, V.P. Affirmative and Negative Sentence Detection in the Brain Using SVM-RFE and Rotation Forest: An fMRI Study. *SN COMPUT. SCI.* **4**, 332 (2023). https://doi.org/10.1007/s42979-023-01786-1
- Sudhir Kumar Gupta, **Ashish Ranjan**, Gagandeep Sharma "Clustering Techniques for Wireless Sensor Networks", International Journal of Emerging Trends in Science and Technology, vol 2., Issue 6, pages 2694-2698
- **Ranjan, A.,** Rawat, A. S., Singh, V. P., Thakur, A. K., & Singh, A. K. (2025). Identification of Neuro-semantic Representation of Concrete Nouns Using Cascaded Feature Selection. SN Computer Science, 6(8).

CONFERENCES

- **Ranjan, A.,** Mishra, R. B., & Singh, A. K. (2017, July). Intelligent computing methods in language processing by brain. In *Advanced Informatics for Computing Research: First International Conference, ICAICR 2017, Jalandhar, India, March 17–18, 2017, Revised Selected Papers* (pp. 31-41). Singapore: Springer Singapore.
- **Ranjan, A**., Singh, A. K., Thakur, A. K., Mishra, R. B., & Singh, V. P. (2021). Sentential Negation Identification of FMRI Data Using k-NN. In *Machine Intelligence and Smart Systems: Proceedings of MISS 2020* (pp. 657-664). Singapore: Springer Nature Singapore.
- **Ranjan, A.,** Pandey, S. K., Singh, A. K., & Pradhan, T. (2024, June). Brain-Inspired Software Architecture: An Adaptive Neural Network Systems. In *2024 IEEE 21st International Conference on Software Architecture Companion (ICSA-C)* (pp. 69-73). IEEE.
- Jena, S. K., **Ranjan, A.,** & Singh, V. P. (2024, December). DDoS Attack Detection Using Explainable AI in Machine Learning. In *International Conference on Advanced Network Technologies and Intelligent Computing* (pp. 3-16). Cham: Springer Nature Switzerland.
- A. V. Atchutarao, V. Nikshitha, **A. Ranjan** and A. Awasthi, "Dual-Stage Deep Learning Model for Glaucoma Detection through Optic Disc–Cup Segmentation and CDR Analysis," *2026 International Conference on Intelligent Processing, Hardware, Electronics, and Radio Systems (CIPHER)*, Jalandhar, India, 2026, pp. 1-6, doi: 10.1109/CIPHER70417.2026.11523802.
- Nikshitha, V., Atchutarao, A. V., **Ranjan, A.,** & Awasthi, A. (2026, February). AI-Driven Endangered Species Detection and Conservation Using Deep Learning. In 2026 International Conference on Intelligent Processing, Hardware, Electronics, and Radio Systems (CIPHER) (pp. 1-8). IEEE.
- Pandey, S. K., Agarwal, **A., Ranjan**, A., & Tripathi, A. K. (2025, June). DS-Generator: Generating Software Metrics for Subsequent Versions of a Software System. In *Proceedings of the 2025 29th International Conference on Evaluation and Assessment in Software Engineering Companion* (pp. 91-101).

WORKSHOPS

- Second QIP-CEP Workshop on Experimental and Empirical Methods in Linguistics (EEL2018), IIT BHU
- QIP Short Term Course on Computational Biology and Neuroscience, 2016, IIT BHU

EXPERIENCE

- Teaching Assistantship in MTech. for 1 year.
- Teaching Assistantship in Ph.D. for 5 years.
- Assistant Professor, LDC Institute of Technical Studies, from 12.09.2013-20.07.2015.
- Assistant Professor VIT Bhopal from 16.09.21-02.08.22
- Assistant Professor SIET Prayagraj from 28.08.2022-30.04.2023
- Assistant Professor Galgotias University from 01.06.2023 to 11.09.2023
- Assistant Professor IIIT Sonepat from 12.09.2023 to till date

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SKILLS

- Programming language: C, Python, Java, and MATLAB.
- Machine learning and deep learning libraries in Python.
- WEKA, and Rational Rose, OPNET tools.
- **J2EE** From NIIT Varanasi

ACHIEVEMENTS

- Qualified **GATE 2010.**

- Qualified **GATE 2011**
- Qualified **GATE 2012**
- Qualified **GATE 2014**
- Qualified **GATE 2015**
- Qualified **UGC-NET 2012**

PERSONAL INFORMATION

Father's Name: Shri Ram Dular Singh
Mother's Name: Smt. Sita Devi
Date of Birth: 11/10/1982
Address: B 32/29-147, Saket Nagar Colony, Varanasi, Uttar Pradesh, India zip code: 221005.
Nationality: Indian
Language Known: English, Hindi, Sanskrit.

REFERENCES

Name: Dr. Anil Kumar Singh
Designation: Associate Professor, CSE, IIT BHU
Email: aksingh.cse@iitbhu.ac.in
Contact No: +918763594240

Name: Prof Ravi Bhushan Mishra
Designation: Professor, IIT (BHU)
Email: mishravi.cse@itbhu.ac.in
Contact No: +918235150923

Name: Dr. Sukomal Pal
Designation: Assistant Professor CSE, IIT BHU
Email: spal.cse@iitbhu.ac.in
Contact No: +919471191533

Dr. Anil Kumar Thakur
Designation: Associate Professor, HS, IIT BHU
Email: anil.hss@iitbhu.ac.in
Contact No: +919452070216

Name: Prof. Rakesh Kumar Mishra
Designation: Professor, Electrical Engineering, IIT BHU
Email: head.hss@iitbhu.ac.in
Contact No: +919450950265