

Faculty Profile

Name: Pradeep Kumar Singh

Designation: Assistant Professor

Date of Birth: 30 June 1989

Date of Joining: 4 September 2018

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Qualification:

Degree	Name of University	Year of Passing	Area
Ph.D.	NIT Durgapur	Thesis has been Submitted on 30/04/2021	Data Analytics, Data Mining
Post-graduation	NIT Durgapur	2014	Data Analytics, Data Mining
Under graduation	G.B.T.U	2011	Virtual Classroom (CSE)

Area of Specialization: Data Analytics, Data Mining, Software Engineering

Experience: Have taken classes in GATE Academy as a part time faculty member from 2014 to 2018.

Teaching: 3 Years

Research: 7 Years

Subject Dealt: Data Structure and Algorithms, Automata, Compiler, Programming for Problem Solving, Computer Organization, Operating System, Database Management System, and Graph Theory etc.

Ph.D. Thesis Title: A Study of an Efficient Memory-based Collaborative Filtering Approach in Recommender System

Publications

1. Pradeep Kumar Singh, Madhabendra Sinha, Suvrojit Das, and Prasenjit Choudhury, Enhancing Recommendation Accuracy of Item-based Collaborative Filtering using Bhattacharyya Coefficient and Most Similar Item, In Applied Intelligence (APIN), Springer, pp.1-24, 2020.
2. Pradeep Kumar Singh, Esam Othman, Rafeeq Ahmed, Awais Mahmood, Habib Dhahri, and Prasenjit Choudhury, Optimized Recommendations by User Profiling using Apriori Algorithm, In Applied Soft Computing Journal (ASCJ), 106, pp.107272, 2021.
3. Pradeep Kumar Singh, Pijush Kanti Dutta Pramanik, and Prasenjit Choudhury, Mitigating Sparsity using Bhattacharyya Coefficient and Items' Categorical Attributes: Improving the

Performance of Collaborative Filtering based Recommendation Systems, In Applied Intelligence journal (APIN), 2021.

4. Pradeep Kumar Singh, Rafeeq Ahmed, Ishwari Singh Rajput, and Prasenjit Choudhury, A Comparative Study on Prediction Approaches of Item-Based Collaborative Filtering in Neighborhood-Based Recommendations, In Wireless Personal Communications (WPC), pp.1-21, 2021.
5. Pradeep Kumar Singh, Pijush Kanti Dutta Pramanik, Madhumita Sardar, Anand Nayyar, Mehedi Masud, and Prasenjit Choudhury, Generating A New Shilling Attack for Recommendation Systems, In Computers, Materials & Continua (CMC), 2021.
6. Pradeep Kumar Singh, Pijush Kanti Dutta Pramanik, and Prasenjit Choudhury, An Improved Similarity Calculation Method for Collaborative Filtering-based Recommendation, Considering Neighbor's Liking and Disliking of Categorical Attributes of Items, In Journal of Information and Optimization Sciences (JIOS), Taylor & Francis, 40(2), pp.397-412, 2019.
7. Pradeep Kumar Singh, Pijush Kanti Dutta Pramanik, Avick Kumar Dey, and Prasenjit Choudhury, Recommender Systems: An Overview, Research Trends, and Future Directions, In International Journal of Business and Systems Research (IJBSR), 15(1), pp.14-52, 2021.
8. Monalisa Mishra, Pradeep Kumar Singh, Aditya Brahmachari, Narayan C. Debnath, and Prasenjit Choudhury. "A robust pest identification system using morphological analysis in neural networks." Periodicals of Engineering and Natural Sciences (PEN) 7, no. 1 (2019): 483-495.
9. Rafeeq Ahmed, Pradeep Singh, and Tanvir Ahmad. "Novel Semantic Relatedness Computation for Multi-Domain Unstructured Data." EAI Endorsed Transactions on Energy Web 8, no. 31 (2020).
10. Aseem Srivastava, Rafeeq Ahmed, and Pradeep Kumar Singh. "A Hybrid Approach of Prediction using Rating and Review Data" in International Journal of Information Retrieval Research.
11. Pradeep Kumar Singh, Pijush Kanti Dutta Pramanik, and Prasenjit Choudhury, A Comparative Study of Different Similarity Metrics in Highly Sparse Rating Dataset, In V. Balas, N. Sharma, A. Chakrabarti (Eds.), Data Management, Analytics and Innovation (vol. 2)), Vol. 839 of Advances in Intelligent Systems and Computing, Springer, 2018.
12. Pradeep Kumar Singh, Pijush Kanti Dutta Pramanik, Narayan Debnath, and Prasenjit Choudhury, A Novel Neighborhood Calculation Method by Assessing Users' Varying Preferences in Collaborative Filtering, In CATA, pp. 345-355, 2019.
13. Pradeep Kumar Singh, Pijush Kanti Dutta Pramanik, Showmik Setta, and Prasenjit Choudhury, Improving the Accuracy of Collaborative Filtering-Based Recommendations by Considering the Temporal Variance of Top-N Neighbors, In International Conference on Innovative Computing and Communications, pp. 1-10, 2020.
14. Pradeep Kumar Singh, Pijush Kanti Dutta Pramanik, Garima Ahuja, Anand Nayyar, Vaibhav Pandey, and Prasenjit Choudhury, Mitigating Sparsity and Cold Start Problem in Collaborative Filtering using Cross-domain Similarity, In 8th International Conference on Orange Technology (ICOT), 2020.
15. Pradeep Kumar Singh, Pijush Kanti Dutta Pramanik, Samridhhi Mishra, Anand Nayyar, Divyanshu Shukla, and Prasenjit Choudhury, Improving Recommendation Accuracy using Cross-domain Similarity, In 7th NAFOSTED Conference on Information and Computer Science (NICS), 2020.

16. Avick Kumar Dey, Manob Roy, Prasenjit Choudhury, Aditi Phadnis, and Pradeep Kumar Singh, "Exploiting Marketing Value From Obsession: A Demographic- Based Seasonal Product and Service Recommendation For Online Facebook User" in Emerging Issues in Business and Informtion Management, 2016.
17. Kunal Kumar Mandal, and Pradeep Kumar Singh. "Information Hiding in Text Steganography: A Different Approach." In Proceedings of 2nd International Conference on Advanced Computing and Software Engineering (ICACSE). 2019.
18. Piyush Keshari, Santanu Koley, Kunal Kumar Mandal, and Pradeep Kumar Singh. "Review on Data Analysis of Cryptocurrency." In Proceedings of 2nd International Conference on Advanced Computing and Software Engineering (ICACSE). 2019.
19. Prasant Kumar Dash, Monalisa Mishra, and Pradeep Kumar Singh. "Studies of Routing Protocol under Responsive and Un-responsive flow in MANET." In Proceedings of 2nd International Conference on Advanced Computing and Software Engineering (ICACSE). 2019.
20. Pradeep Kumar Singh, Showmik Setta, and Ishwari Singh Rajput. "A Modified Spearman's Rank Correlation Coefficient for an Efficient Method of Similarity Calculation in Collaborative Filtering-based Recommendation." In Proceedings of 2nd International Conference on Advanced Computing and Software Engineering (ICACSE). 2019.

Books and Book Chapters:

1. Pradeep Kumar Singh, Pijush Kanti Dutta Pramanik, and Prasenjit Choudhury. "Collaborative filtering in recommender systems: Technicalities, challenges, applications, and research trends." In New Age Analytics, pp. 183-215. Apple Academic Press, 2020.

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