

EDUCATION

Degree / Certificate	Institution/ Board	Year	CGPA / Percentage
Ph.D.	National Institute of Technology Nagaland	2020	9.77
MBA IT & Mgmt. (Distance)	Dr. D.Y. Patil Vidyapeeth, Pune	2019	75.41%
M.Tech CSE	National Institute of Technology, Nagaland	2017	9.33
B.Tech CSE	Lovely Professional University, Phagwara	2015	8.48
HSC (12th)	D.A.V Public School, Cantt area, Gaya	2011	84.8%
SSC (10th)	Gyan Bharti Public School, Gaya(Bihar).	2009	86.66%

SKILL SET

- Programming Languages : C, C++, R, Python
- Web Technologies : HTML, CSS.
- Area of Interest : Recommender System, Machine Learning and Data Analytics.
- Languages Known : English, Hindi
- Courses Taught : Artificial Intelligence, Machine Learning, Data Structure using C, Operating System, Internet of Things

EXPERIENCE DETAILS

- AdHoc Faculty at NIT Andhra Pradesh, India [August'2020 to Dec'2020]
- Served as Teaching Assistant at NIT Nagaland, India [August2017 to June'2020]
- Served as Lab Assistant at NIT Nagaland, India [August2015 to May2017]

RESEARCH WORK

- **Dwindling Recommender System Challenges in E-Commerce** (August 2017-August 2020)
I solved the issue of efficient cohort group selection and detached the negative effects of long tail problem. I formulated appropriate clusters in order to provide the power of multi group selection facility with drifting prediction context. The closing recommendation list was populated with diversified elements in order to enhance user satisfaction. We analyzed the user interest drift over passage of time with proper order of prediction.

LIST OF PUBLICATIONS

• International Journal Publications:

1. **B. B. Sinha** and R. Dhanalakshmi, "Evolution of recommender system over the time," Soft Computing, Springer, Print ISSN 1432-7643 & Online ISSN 1433-7479, Vol. 23, no. 23, pp. 12169–12188, 2019. DOI: <https://doi.org/10.1007/s00500-019-04143-8> (SCI/SCIE) - Citation - 3
2. **B B Sinha and R Dhanalakshmi**, Building a Fuzzy Logic-Based Artificial Neural Network to Uplift

Recommendation Accuracy, *The Computer Journal*, Vol. 63, Issue 11, pp. 1624–1632, 2020. <https://doi.org/10.1093/comjnl/bxz086> (SCI/SCIE)

3. **B. B. Sinha** and R. Dhanalakshmi, "Building a fuzzy logic based McCulloch-Pitts Neuron recommendation model to uplift accuracy," *The Journal of Supercomputing*, Springer (2020). DOI: <https://doi.org/10.1007/s11227-020-03344-5> (SCI/SCIE)
4. **B. B. Sinha**, R. Dhanalakshmi and R. Regmi, "TimeFly algorithm: A novel behavior inspired movie recommendation paradigm," *Pattern Analysis and Applications*, Springer, ISSN 1433-755X, Vol. 23, pp. 1727-1734, 2020. DOI: <https://doi.org/10.1007/s10044-020-00883-8> (SCI/SCIE)
5. R. Dhanalakshmi and **B. B. Sinha**, "Hybrid Cohort Rating Prediction Technique to leverage Recommender System," *Journal of Scientific & Industrial Research*, NISCAIR, Print ISSN 0022-4456 & Online ISSN 0975-1084, Vol. 78, pp. 411-414, 2019. <http://nopr.niscair.res.in/handle/123456789/48791>. (SCI/SCIE)- Citation - 2
6. **B. B. Sinha** and Dr. R. Dhanalakshmi, "Building an adaptive recommendation model based on fuzzy MP neuron and weighted similarity indicator," *Journal of Information Science and Engineering*, Institute of Information Science, Academia Sinica, ISSN 1016-2364, 2020. (Accepted)(SCIE)
7. **B B Sinha and R Dhanalakshmi**, "A recommender system based on a new similarity metric and upgraded crow search algorithm," *Journal of Intelligent & Fuzzy Systems*, IOS Press. Vol. 39, pp. 3167-3182, 2020. DOI: <https://doi.org/10.3233/JIFS-191594> (SCI/SCIE)
8. **B. B. Sinha** and R. Dhanalakshmi, "Evolution of recommender paradigm optimization overtime," *Journal of King Saud University-Computer and Information Sciences*, Elsevier, ISSN 1319-1578, 2019. DOI: <https://doi.org/10.1016/j.jksuci.2019.06.008>. (SCOPUS)- Citation - 2
9. **B. B. Sinha**, R. Dhanalakshmi and V. S. Chaitanya, "Diversifying the predictions in the recommender systems," *International Journal of Business Information Systems*, Inderscience, Print 1746-0972 & Online 1746-0980, 2019. DOI: <https://doi.org/10.1504/IJBIS.2020.10023775> (Accepted)(SCOPUS)
10. **B. B. Sinha** and R. Dhanalakshmi, "An effective movie recommender system enhanced with time series analysis of user rating behavior," *International Journal of Mathematics in Operational Research*, Inderscience, Print 1757-5850 & Online 1757-5869, 2020. (Accepted)(Scopus)

• International Conferences:

11. **B. B. Sinha** and R. Dhanalakshmi, "Efficient cohort nearest neighbor (CNN) technique to leverage recommender systems," in *2018 International Conference on Advances in Computing and Communication Engineering (ICACCE)*, Paris, France, IEEE, pp. 273–277, 2018.

PROJECT UNDERTAKEN

- **enodeB caching in 4G LTE networks** (May 2016 – April 2017)
I implemented all the existing caching algorithm in MATLAB. I explained the drawbacks of the existing algorithm and then proposed my new algorithm to get rid of staleness problem and to reduce latency to a large extent. I also did performance comparison of all the algorithm and showed the efficiency of newly proposed algorithm.
- **Development of website for faculty and student interaction** (Jan 2015-June 2015)
I designed a website using concepts of HTML5, CSS3 and jQuery for front end designing and for backend authentication and coding we have used Java and servlets concept. This site was having a three-level authentication i.e. mobile verification through OTP, email verification and faculty should verify the student. Then the user can use their ID to share any problem he is facing related to academics or student affairs.

TRAINING

- **Training on UI development at SivaSoft, Hyderabad** (June 2014 – July 2014)
I did training on front end designing using HTML5, CSS3 and JavaScript. I designed a website for second hand car sale and purchase.

WORKSHOPS/ CERTIFICATIONS/ SEMINARS

- Presented a research paper titled "Efficient Cohort Nearest Neighbor (CNN) technique to leverage recommender system" in 4th IEEE International Conference on Advances in Computing and Communication Engineering held at Paris, France. (22nd June – 23rd June'2018)

S. No.	Workshop	Institute	Date
1.	Optimization Techniques and Applications	National Institute of Technology Andhra	21 st Sept'2020 – 25 th Sept'2020

1.	Computing with Words via Fuzzy Logic with Applications	Pradesh National Institute of Technology Nagaland	13 th Jan'2020 – 17 th Jan'2020
2.	AI and Machine Learning	National Institute of Technology Nagaland	21 st Oct'2019 – 25 th Oct'2019
3.	Short Term Course on Python for Data Science	National Institute of Technology Nagaland	16 th Oct'2019 – 20 th Oct'2019
4.	Algebra and Optimization	National Institute of Technology Nagaland	10 th Dec'2018 – 14 th Dec'2018
5.	Medical Image Computing: Machine-Learning methods and Advanced-MRI applications	Indian Institute of Technology Bombay	23 rd July'2018 – 27 th July'2018
6.	ANN and Deep Learning	Indian Institute of Technology Guwahati	11 th June'2018 – 15 th June'2018
7.	Optimization Tools and Big Data Analytics Tools for Engineering Solutions	National Institute of Technology Nagaland	9 th April'2018 – 13 th April'2018
8.	Big Data Analysis and Mining in Deep Web Repositories	Central University of Rajasthan, Ajmer	8 th Jan'2018 – 12 th Jan'2018
9.	Predictive Analytics	National Institute of Technology Nagaland	7 th Dec'2017 – 11 th Dec'2017
10.	Private Cloud Implementation with Open Source Software.	National Institute of Technology Nagaland	2 nd Nov'2017 – 6 th Nov'2017
11.	Internet of Things	National Institute of Technology Nagaland	28 th July'2016 – 30 th July'2016
12.	Hubnet Certified Hardware Engineer	Hubnet Technologies Pvt. Ltd., Gaya	April'2008 – August'2008
13.	Hubnet Certified Multimedia Developer	Hubnet Technologies Pvt. Ltd., Gaya	August'2007 – August'2008

ACADEMIC ACHIEVEMENTS

- MTech Gold Medalist
- GATE qualified 2017, 2016, 2015

POSITIONS AND RESPONSIBILITY HELD

- CSE Association Coordinator at NIT Andhra Pradesh [August'2020-May'2021]
- Training and Placement Secretary at NIT Nagaland [August'2016 to May'2017]
- Core team member of Techno-cultural fest Ekarikthin' 2017 at NIT Nagaland

DATE: 18th Jan' 2021

BAM BAHADUR SINHA