



Dr.Th. Shanta Kumar

HOD, CSE

*Girijananda Chowdhury University, Assam, India*

### Personal Information

Gender **Male**,  
Date of Birth **10, June 1973**,

### Education

2007–2012 **Ph.D.**, *Himachal Pradesh University, Shimla, HP*,  
1998–2000 **M.C.A.**, *Jorhat Engineering College, Dibrugarh University, 70.2%*  
1992–1995 **B.Sc.(H)Comp.Sc.**, *D.M. College of Science, Manipur University, 68.4%*  
1990–1992 **Class XII**, *Ram Lal Paul Hr. Sec. School, BSE, Manipur, 50.8%*  
–1990 **Class X**, *Don Bosco High School, BSE, Manipur, 50.0%*

### Experience [21 Years 6 Months]

May,2016– **Head of Dept**, *Girijananda Chowdhury University, Assam, [6 Years 6 months]*  
Cont. Teaching and Administrative Responsibilities  
R&C Activities

Jan,2013– **Principal**, *SIMT, Assam, [3 Years 3 months]*  
Apr,2016 Teaching and Administrative Responsibilities  
Courses and Projects Proposals

Jul,2001– **Assistant Professor**, *Sherubtse College, Bhutan, [11 Years 6 months]*  
Dec,2012 Co-ordinator Examination Branch  
Courses Development for Royal University of Bhutan

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## Ph.D. Scholars

- [1] **Domain:**, *Cyber security and Machine Learning Techniques*, ASTU,
- [2] **Domain:**, *Anomaly Detection in Streams*, ASTU,

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## Research Interest

Data Mining, Machine Learning/Deep Learning, Natural Language Processing

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## Conferences/Workshops Chaired

Nov,2015	Disaster Management: Issues and Challenges	PCPS Girls' Polytechnic, Guwahati, Assam India
Mar,2015	National Seminar on English Language Pedagogy for Engineering & Polytechnic Students	Scholar's Institute of Technology & Management, Assam, India
May,2012	Advances in Environmental Sciences (AES-2012)	Royal University of Bhutan and Microbiology Society, India
Oct,2010	1st International Conference on Population and Development, Bhutan	Royal University of Bhutan & UNFPA Bhutan

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## Research Grants Received

- [1] **Time Series & Machine Learning**, *Time Series Analysis and Prediction of Air Pollution in Guwahati*, MHRD (TEQIP-III), Rs.2,97,000

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## Book/Chapter Published

- [1] **Th. Shanta Kumar**, *A Survey of Data Mining Techniques in Business Applications*, Contemporary Thoughts in Management, 978-81-924348-0-3

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## Publications

- [15] **Th. Shanta Kumar, Himanish S. Das, Upasana Choudhary, Prayakhi E. Dutta, Debarati Guha, and Yeasmin Laskar**, "*Analysis and Prediction of Air Pollution in Assam Using ARIMA/SARIMA and Machine Learning*", *Innovations in Sustainable Energy and Technology India 2020*, pp-317, 2020  
<https://doi.org/10.1007/978-981-16-1119-3>
- [14] **Rajarshi Paul, Th. Shanta Kumar**, "*A Machine Learning Approach to Biodiversity Time Series Analysis*", 2nd International Conference on information systems & management science (ISMS) 2019, pp-58, 2018  
<http://dx.doi.org/10.2139/ssrn.3520735>
- [13] **Th. S. Kumar**, "*Enhancement of Image Classification through Data Augmentation using Machine Learning*", *International Journal of Computer Sciences and Engineering*, Vol.6, Issue.9, pp.220-224, 2018

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- [12] **Th. S. Kumar**, "Extracting Patterns from Students' Feedback using Mixed Method", *International Journal of Computer Sciences and Engineering*, Vol.4, Special Issue.7, pp.136-139, 2016
- [11] **Anjana K. Mahanta, Amar J. Singh and Th. Shanta Kumar**, "Customer Segmentation: Using a Comparative Case of Clustering Techniques", *CiiT International Journal of Data Mining and Knowledge Engineering*, vol. 3(1), pp. 39-44 January 2011  
<http://ciitresearch.org/dl/index.php/dmke/article/view/DMKE012011007>
- [10] **Th. S. Kumar**, "A Survey of Data Mining Techniques in Disaster Management", *National Seminar on Disaster Management: Issues and Challenges*, PCPS Girls' Polytechnic, Guwahati, Nov 2015, pp. 16-19
- [9] **Th. S. Kumar**, "Developmental Trend in Engineering Education in Recent Years in India and a Comparative Analysis of Available Facilities in North-East", *National Seminar on Prospects of Technical Education in North-East India : Present Trend of Development*, Imphal, Manipur, May, 2013
- [8] **Th. S. Kumar & Devi Bhakta Suberi**, "Gender-Based Performance of Sherubtse's Faculties through Students' Feedback", *National Seminar on Gender and Reproductive Health*, Bhutan, Oct. 2011
- [7] **Th. S. Kumar**, "Customer Segmentation using Clustering Techniques", in *Proceedings of the International Conference on Population and Development*, Bhutan, Oct. 2010, pp. 65-71
- [6] **Th. S. Kumar and A. J. Singh**, "Genetic Algorithm and Clustering: A Comparative Case Study", in *Proceedings of the 2nd International Conference on Data Management (ICDM2009)*, Delhi, India, Feb. 2009. (ISBN : 023-063-760-4)
- [5] **V. Devodas, B. Thomas and Th. S. Kumar**, "A Simple Fuzzy Clustering Method for Handling Outlier Points", in *Proceedings of the International Conference in Mathematics and Computer Science (ICMCS2009)*, Chennai, India, Jan. 2009, Vol. 2, pp. 234. (ISBN : 978-81-8371-195-1)
- [4] **G. Raju, B. Thomas, S. Tobgay and Th. S. Kumar**, "Fuzzy Clustering Methods in Data Mining: A Comparative Case Study", in *Proceedings of the International Conference on Advanced Computer Theory & Engineering (ICACTE2008)*, Phuket, Thailand, Dec. 2008, pp 489-493. (ISBN : 978-0- 7695-3489-3)  
<https://ieeexplore.ieee.org/document/4737006>
- [3] **G. Raju, B. Thomas, Th. S. Kumar and S. Thinley**, "Integration of Fuzzy Logic in Data Mining to Handle Vagueness and Uncertainty", in *Proceedings of the 4th International Conference on Intelligence Computing (ICIC2008)*, Shanghai, China, Sep. 2008, pp. 880-887. (ISBN : 978-3-540- 85983-3)  
[https://link.springer.com/chapter/10.1007/978-3-540-85984-0\\_106](https://link.springer.com/chapter/10.1007/978-3-540-85984-0_106)
- [2] **B. Thomas and Th. Shanta Kumar**, "Role of GIS in Election Process : A Case of Bhutan", *Bhutan in the coming of 2008 and Beyond*, Royal University of Bhutan, Thimphu, Jun, 2008

- [1] **Th. Shanta Kumar**, *“Electronic Devices – Its Hazard to the Environment”*, National Seminar – The Past, Present & Future of Bhutan's Environment, *Sherubtse College, June, 2007*

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## Referees

Prof. Thuleshwar Nath, Principal, GIMT, principal@gimt-guwahati.ac.in, 93650 51681

Dr.Anjana M. Kakoti, Professor, Dept. of Computer Science, Gauhati University, anjanagu@yahoo.co.in, 98644 25716

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## Interests

Painting, Playing Tennis and Table Tennis