

# CURRICULUM VITAE

## Dr. JYOTISMITA TALUKDAR

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Dept. of Computer Science and Engineering  
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### AREA OF INTEREST

Data Mining, Machine Learning, Analysis of algorithms.

### EDUCATION

PhD	Dept. of Computer Science Gauhati University, Assam, India Duration: August 2014 – Feb 2018 Thesis Title: “A study on retrospective cardiac disorder using statistical and data mining techniques”
M.Engg(CS)	Department of Computer Science Asian Institute of Technology, Thailand Duration: 2011 – 2013 CGPA: 3.26/4 Thesis: “Surveillance of Heart disease using Rattle Data Mining Tool”
B.E (CS)	Department of Computer Science and Engineering GIMT, Gauhati University, Assam, India Duration: 2007 – 2011 Score: 76%(H)
AISSCE(Science)	Faculty Higher Secondary School, Assam Year: 2006 Score: 83% Board: CBSE
AISSE	Faculty Higher Secondary School, Assam Year: 2004 Score: 91% Board: CBSE

## WORK HISTORY

1.	<b>Part Time Faculty</b> Dept. of Computer Science Cotton University Assam – 781001 Duration: Feb1,2021 – April 12,2021
2.	<b>Assistant Professor (Adhoc)</b> Dept. of Computer engineering K J Somaiya Institute of Engineering and Information Technology Sion – 400022, Mumbai, Maharashtra Duration: January 2, 2019 – December 1, 2019
3.	<b>Assistant Professor (Selection Grade)</b> Department of Analytics School of Computing Science, University of Petroleum and Energy Studies, Dehradun – 248007 From: Feb 19, 2018 - Dec 31, 2018
4.	<b>Assistant Professor (Senior Scale)</b> Department of Computer Science University of Technology and Management, Shillong, Meghalaya – 793001 From: July 24, 2014 - Jan 9, 2018
5.	<b>Guest Faculty Department of IT</b> Gauhati University Institute of Science and Technology, Guwahati, Assam-781014 Duration : June 2013 - July 2014

## RESEARCH EXPERIENCE

1. Associated with project on “Soil Health and analysis” in association with Somaiya Vidyavihar and Michigan state University.
2. Associated with project on “Farmer’s Wallet (Digital Agriculture)” in association with Somaiya Vidyavihar, Indian Meteorological Department and Michigan state University.
3. One year R & D experience in the Language Technology development for Bodo language (an Indian language). Developed a Festival based Text-to-Speech synthesis (TTS) system for the Bodo language.
4. Associated with the development of a screen reader on ORCA/NVDA system for the physically challenge persons for the Bodo language native speakers.

## **BOOKS CO-AUTHORED**

1. Fundamentals of ICT: Mani Manik Prakash, Guwahati, Assam India. 2014.
2. Computer Science and Applications- Vol-I: Mani Manik Prakash, Guwahati, Assam India. 2014.
3. Computer Science and Application, Vol.-2: Mani Manik Prakash, Guwahati, Assam India. 2015.
4. ICT and Class Room Transaction. Mani Manik Prakash, Guwahati, 2015.

## **REWARDS AND RECOGNITION**

1. Granted Australian Patent on IoT based method and system for rainwater harvesting and storage by converting it to drinkable water. Patent no: 2021102967.
2. Published Indian Patent on AGRO FLY: a Novel insect drone for crop monitoring and surveillance. Application number: 202131023576.
3. Outstanding faculty award for assisting in educational and placement activities, UTM, 2016
4. Served as a team member in the placement cell committee of Girijananda Choudhury Institute of Management and Technology, Guwahati.

## **CONFERENCES ATTENDED**

1. Hemang Bhanusali, Arman Arethna, Sumer Bhadra, Dr. Jyotismita Talukdar, “Digital Certificate using BlockChain: An Overview”, International conference on “Advances in Science and Technology” (ICAST 2019), Mumbai, 9th April, 2019.
2. International conference on Parallel, Distributed and Grid computing (PDGC 2018), IEEE conference no. 44302, Scopus Indexed, December 20-22, 2018.
3. International conference on communication, Information & computing Technology (ICCICT), Oct/2012, Bombay, India.
4. International Conference on Emerging Trends in e-Education, e- Learning, e-Technology, e-Business and e-Governments (ICET5E2013), Bangkok, Thailand.
5. National seminar on Advances in Electronics and Allied Science & Technology, Gauhati University, Aug. 1-3, 2013.

## **PUBLICATIONS**

1. Jyotismita Talukdar, Shibani Singh, Junumoni Khakhlari, Bidyashor Chingtham, Mimiton Devi, “Virtual Machine Load balancing in Cloud Environment: A Review”, Journal of emerging Technologies and Innovative research, Volume 8, Issue 9, 2021.
2. Chandan Kumar, Jyotismita Talukdar, Jeenti Devi, “A meta analytical review of cancer imaging techniques using deep learning ”, Cluster Computing Journal (communicated).

3. Dr. Jyotismita Talukdar, Ms. Snehal Pawar, “Sugarcane Leaf Disease Detection”, International Research Journal of Engineering and Technology (IRJET), Volume: 06 Issue:04 | Apr 2019.
4. Dr. Jyotismita Talukdar, Mr. Bhupesh Dewangan, “Analysis of cardiovascular diseases using artificial neural network”, International conference on Parallel, Distributed and Grid computing (PDGC 2018), IEEE Conference Record No. 44302, INDEXING: SCOPUS.
5. Jyotismita Talukdar, Dr. Sanjib Kr. Kalita, “A Statistical Approach for early detection and modeling of Heart Diseases”, International Journal of Scientific & Engineering Research, Volume 7, Issue 5, May-2016, ISSN 2229-5518, INDEXING: SCOPUS.
6. Jyotismita Talukdar, Dr. Sanjib Kr. Kalita, “Analysis on Retrospective Cardiac Disorder Using Statistical Analysis and Data Mining Techniques”, International Journal of Applied Engineering Research ISSN 0973-4562 Volume 12, Number 17 (2017) pp. 6778-6787, INDEXING: SCOPUS.
7. Dr. Debmalya Bhattacharya, Jyotismita Talukdar: An Effectual Way of Information Reclamation Using Peer-Peer Approach in Manets, International Journal of Applied Engineering Research (IJAER).2015; INDEXING: SCOPUS, EBSCOhost, GOOGLE Scholar, JournalSeek, J-Gate etc.
8. Talukdar Jyotismita, Deka Ganesh, Talukdar P.H, Pathak, Nabankar : “ Intonation Pattern in Bodo and Rabha Language ‘, IEEE Xplore Digital Library, 2012.( This paper is presented in the 12<sup>th</sup> International Conference on communication, Information and Computing Technology (ICCICT), Oct/2012, Mumbai, India.)
9. J. Talukdar et al, Dialect variation and associated G2P rules with reference to Bodo language accepted in International Oriental COCOSDA Conference 2013 held jointly Asian Spoken Language Research and Evaluation (O-COCOSDA/CASLRE), 25-27 Nov. 2013, Gurgaon & published in IEEE Xplore, DOI : [10.1109/ICSDA.2013.6709870](https://doi.org/10.1109/ICSDA.2013.6709870), Page(s): 1-4.
10. Talukdar Jyotismita, Talukdar P.H, Deka. Ganesh, “ Word Boundary Detection of Bodo and Rabha Language using Energy and Pitch Control Analysis ‘, IEEE Xplore Digital Lib., 2012. (This paper is presented in the 12<sup>th</sup> International Conference on communication, Information and Computing Technology (ICCICT), Oct/2012, Mumbai, India).
11. Talukdar, Jyotismita, Pathak, Nabankar, “Acoustic Representation of Bodo and Rabha Phonemes “International Journal of Computing, Communication and Networking (ISSN 2319-2720), Vol. 1, No. 1, July-Aug. /2011.
12. Nath Chandan, Talukdar Jyotismita, Talukdar, P.H , “ Robust Fuzzy C-Mean algorithm for Segmentation and analysis of Cytological Images .” Int. Journal of Computing, Communication and Networking. “(ISSN 2319-2720), Vol.1, No. 1 July- Aug. /2012.
13. Talukdar Jyotismita, Sarma Chandan, Talukdar, P.H, “ Automatic Syllabification Rules for Bodo Language .”, Int. Journal of Computational Engineering Research (ISSN 2230-3005), Vol. 2, No. 6, Oct./2012.
14. Sarma, C, Talukdar Jyotismita, Talukdar, P.H. : “A Rule based Algorithm for Automatic

Syllabification of a word of Bodo Language . “, Int. Journal of Computing, Communication and Networking,( ISSN 2319-2720), Vol.1, No.2, Oct/2012.

15. Sora, M, Talukdar Jyotismita, Talukdar, P.H: “Formant Frequency and Cepstral Method Estimation of Galo Phonemes Using Acoustical Cues. “, Int. Journal of Information and Electronics Engineering. (IJIEE), (ISSN 2010-37190),Vol.3,No.1,Jany/2013.
16. Nath C.K, Talukdar Jyotismita, “ Cell Image Analysis using Fuzzy Clustering and Morphology based Computation. “, Int. Journal of Computing, Communication and Networking (IJCCN), (ISSN 2319-2720), Vol.1, No.1,July-Aug./2012.
17. Sinha, S; Talukdar Jyotismita; Acharjee P; Talukdar, P.H: “Cepstral & Mel-Cepstral Frequency Measure of Sylheti Phonemes. “, Int. Journal of Computing, Communication and Networking(IJCCN), (ISSN 2319-2720), Vol.1, No. 3, December/2012.
18. Marpe Sora,Jyotismita Talukdar,Swanirbhar Majumder P.H.Talukdar,Uzzal Sharma ,“Word level Detection of Galo and Adi language using acoustical cues. “, Int. J. Of Scientific research in Computer science and Engineering (IJSRCSE), Vol.-1, N0.-1, 2013.
19. Jyotismita Talukdar, “ Surveillance of Heart Disease using Rattle Mining Tool “ Accepted for presentation and publication in the “ International conference on Emerging Trends in e-Education, e-Learning, e-Technology, e-Business and e-Government (ICET5E 2013),Bangkok, Thailand, Aug 16-17/2013.
20. Jyotismita Talukdar, “Surveillance of Heart Disease using Data Mining Technique “International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering (IJAREEIE)”, Vol. 2, Issue-8, 2013(Impact Factor: 1.686).
21. Jyotismita Talukdar, Chandan Nath, P.H.Talukdar, “ Fuzzy Clustering Based Image Segmentation of Pap Smear Images of Cervical Cancer Cell using FCM Algorithm “, International Journal of Engineering and Innovative Technology(IJEIT). “, Vol.-3, Issue-07, 2013.( Impact Factor : 1.895).

#### **WORKSHOP/CONFERENCE ORGANISED**

1. Workshop on Big Data Analytics using Hadoop”, Department of Computer Engineering, KJSIEIT, Mumbai, October 3, 2019.
2. Workshop on Android programming and Python”, Department of Computer science, UTM, Meghalaya, October 22-23, 2015.
3. International Conference on Climate Change Mitigation and Technologies for Adaptation (IC3MTA-2016) , 20th& 21stJune, 2016, Synod College, Shillong, Meghalaya, India

#### **WORKSHOP/FDP ATTENDED**

1. National level Workshop on Big data”, organized by Gauhati University Institute of Science and Technology in association with KOVID, Jan 2 – Jan 6, 2017.

2. FDP on Business Analytics and Data Mining modelling using R part II. , NPTEL online certification, July 2019.

### **PERSONAL DETAILS**

Date of Birth: July 2,1989

Place of Birth: Guwahati

Marital Status: Married

Dr. Jyotisma Talukdar