Hasin A Ahmed

Assistant Professor

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I believe that discussion and sharing knowledge brings one closer to his/her next milestone. Such an act promotes collaboration and mutual respect to build a very confluent environment, both in academics and research. So I will always try to create such an environment among my fellow colleagues and students.

Address

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Education

2017 **Doctor of Philosophy (PhD)**, *Tezpur University*.

2010 **Master of Computer Applications (MCA)**, *Tezpur University*, *9.48/10,* First class.

2007 **Bachelor of Computer Applications (BCA)**, *Dibrugarh University*, *79.81/100,*. First class

2003 **Higher Secondary (HS)**, *Assam Higher Secondary Education Council*, *67.8/100,* First division.

2000 **High School Leaving Certificate (HSLC)**, *Secondary Education Board of Assam*, *66.66/100,* First division.

Experience

June, 2010 - March, 2011 **Assistant Professor**, *Don Bosco College of Engineering and Technology, Don Bosco University*, Guwahati.
I taught two courses namely *Object oriented programming through C++* and *Java* in B.Tech and MCA programmes. Due to problems arising from bad communication between Tezpur University and Guwahati, I was not able to use the weekends to be with my guide and co-researchers. So I decided to quit the job and finish PhD first.

Apr, 2011 - Jan, 2014 **Faculty (part time)**, *DOEACC, Computer Center, Tezpur University*.
I taught courses such as Computer Architecture and Java in the DOEACC center, Tezpur University during this period along with my PhD research works.

Sept, 2014 - till date	**Assistant Professor**, *Department of Information and Computer Science.* I have been teaching courses such as Fundamentals of Computers, C programming, Data Structure, System Software and Data Communication in both post graduate and under graduate programmes.

PhD Thesis

Title	*Gene Expression and Protein Interaction Analysis using Data Mining Techniques*
Supervisors	Prof Dhruba K Bhattacharyya
Description	The thesis introduces some supervised and unsupervised data mining techniques to address some important problems in gene expression data analysis and protein interaction data analysis.

Languages

Assamese	Native
English	Fluent
Hindi	Fluent

Computer skills

Programming	C, C++, Java, VB.NET, Assembly (Intel 8086), HTML, CSS, PHP, JSP
Tools	Matlab, R package, Scilab, Weka, Cytoscape, Blast, Windows Office package, Latex
OS	Windows, Linux

Achievements

Gold medal	Recipient of Gold Medal in MCA programme, 2010 from Tezpur University
INSPIRE	Recipient of DST INSPIRE fellowship from September, 2011 till date
NET	Cleared UGC NET in Dec 2012
ITES	Qualified Information Technology Enabled Services (ITES) examination conducted by DOEACC Society, Government of India in April, 2006.
Code for Freedom contest	Awarded certificate of appreciation by Sun Microsystems Inc. for participating in Sun Code for Freedom Contest 2008. This certificate is signed by James Gosling, who was then serving as Vice President of the historic company. James Gosling is best known as the creator of Java programming language.
eLSI TBT-2016	Awarded a certificate by IIT, Bombay for completing all the assigned tasks in Task Based Training (TBT-2016) as a part of Teacher Training through e-Yantra Lab Setup Initiative (e-LSI). My team was awarded *Class A* in this training.

Hobbies

Music and Sport	I like to spend most of my time playing cricket, badminton and table tennis. I also enjoy playing the guitar, listening to music and singing songs

Presentations in Conferences

ICCCS'12	I attended *2nd International Conference on Communication, Computing & Security* held at Rourkela, Orissa and presented a paper titled *Negative Correlation Aided Network Module Extraction.*

NCETACS'11 I attended *2nd National Conference on Emerging Trends and Applications in Computer Science* held at Shillong, Meghalaya and presented a paper titled *Triclustering in Gene Expression Data Analysis: A Selected Survey.*

Conferences and Workshops attended

NWDAA'10 Attended the two-day long *National Workshop on Design and Analysis of Algorithms 2010* held at Tezpur University in January, 2010.

NWNS'10 Attended the two-day long *National Workshop on Network Security* held at Tezpur University in June, 2010

ISI-TU School'10 Attended the four-day long *ISI-TU Assam Winter School on Soft Computing* held at Tezpur University in December, 2010.

WSST'10 Attended the two-day *Workshop on Scilab and Spoken Tutorials* held at Don Bosco College of Engineering and Technology, Guwahati in December, 2010.

NCTMI'11 Attended the three-day long *National Conference on Trends in Machine Intelligence 2010* held at Tezpur University in March, 2011.

ISI-TU School'11 Attended the three-day long *North East ISI-TU Spring School on Selected Topics in Algorithm* held at Tezpur University in March, 2011.

NWMTD'11 Attended the two day long *National Workshop on Malware Threats and Defence* held at Tezpur University in June, 2011.

WEHIS'11 Attended the two day long *Workshop on Ethical Hacking and Information Security* held at Tezpur University in October, 2011.

ISTE STTP'15 Participated in a two week *Short Term Training Program (STTP)* conducted by Indian Society for Technical Education in collaboration with IIT, Kharagpur and Tezpur University in April-May, 2015.

ISI-AAU School'15 Attended the five-day long *ISI-AAU Winter School on Soft Computing Methodologies in Bioinformatics* held at Assam Agricultural University in December, 2015.

e-Yantra Workshop'16 Attended the two-day long *Workshop on Introduction to Robotics* held at Tezpur University organized by IIT, Bombay under e-Yantra project sponsored by MHRD, Govt. of India in April, 2016.

Publications

1. Ahmed, H.A., Mahanta, P., Bhattacharyya, D.K. and Kalita, J.K., 2014. Shifting-and-scaling correlation based biclustering algorithm. *IEEE/ACM Transactions on Computational Biology and Bioinformatics (TCBB)*, 11(6), pp.1239-1252.
2. Ahmed, H.A., Bhattacharyya, D.K. and Kalita, J.K., 2015. Core and peripheral connectivity based cluster analysis over PPI network. *Computational biology and chemistry*, 59, pp.32-41.
3. Ahmed, H. A., Mahanta, P., Bhattacharyya, D. K., & Kalita, J. K. (2011, October). Gerc: tree based clustering for gene expression data. Proceedings of the *2011 IEEE 11th International Conference on Bioinformatics and Bioengineering (BIBE)* (pp. 299-302). IEEE.
4. Ahmed, H. A., Mahanta, P., Bhattacharyya, D. K., & Kalita, J. K. (2012). Module extraction from subspace co-expression networks. *Network Modeling Analysis in Health Informatics and Bioinformatics*, 1(4), 183-195.
5. Ahmed, H. A., Mahanta, P., Bhattacharyya, D. K., Kalita, J. K., & Ghosh, A. (2011, December). Intersected coexpressed subcube miner: An effective triclustering algorithm. Proceedings of the *2011 World Congress on Information and Communication Technologies (WICT)* (pp. 846-851). IEEE.
6. Ahmed, H. A., Mahanta, P., & Bhattacharyya, D. K. (2012). Negative Correlation Aided Network Module Extraction. Proceedings of the *2nd International Conference on Communication, Computing & Security*, 6,

658-665.

7. Ahmed, H. A., Mahanta, P., & Bhattacharyya, D. K. (2012, August). Finding gene coherent patterns using PATSUB+. Proceedings of the *International Conference on Advances in Computing, Communications and Informatics* (pp. 38-44). ACM.
8. Ahmed, H. A., Mahanta, P., Bhattacharyya, D. K., & Kalita, J. K. (2012). Autotuned Multilevel Clustering of Gene Expression Data. *American Journal of Bioinformatics Research*, 2(5), 68-78.
9. Mahanta, P., Ahmed, H. A., Bhattacharyya, D. K., & Kalita, J. K. (2012). An effective method for network module extraction from microarray data. *BMC bioinformatics*, 13(Suppl 13), S4.
10. Mahanta, P., Ahmed, H. A., Bhattacharyya, D. K., & Ghosh, A. (2014). FUMET: A fuzzy network module extraction technique for gene expression data. *Journal of Biosciences*, 39(3), 351-364.
11. Mahanta, P., Ahmed, H. A., Bhattacharyya, D. K., & Kalita, J. K. (2011, March). Triclustering in gene expression data analysis: A selected survey. Proceedings of the *2011 2nd National Conference on Emerging Trends and Applications in Computer Science (NCETACS)* (pp. 1-6). IEEE.
12. Mahanta, P., Ahmed, H. A., Kalita, J. K., & Bhattacharyya, D. K. (2012, October). Discretization in gene expression data analysis: a selected survey. Proceedings of the *Second International Conference on Computational Science, Engineering and Information Technology* (pp. 69-75). ACM.
13. Borah, P., Ahmed, H. A., & Bhattacharyya, D. K. (2014). A statistical feature selection technique. *Network Modeling Analysis in Health Informatics and Bioinformatics*, 3(1), 1-13.
14. Goyal, A., Ahmed, H. A., & Bhattacharyya, D. K. (2014, Feb). PNCSim: An effective measure to identify gene co-expressed patterns. Proceedings of the *Fifth International Joint Conferences on CNC 2014 & CCPE 2014* (pp. 155-162). ACEEE.
15. Ahmed, H.A., Bhattacharyya, D.K. and Kalita, J.K., 2015. Strew index: An effective feature–class correlation measure *Network Modeling Analysis in Health Informatics and Bioinformatics*, 4(1), pp. 4-24.
16. Sharma, P., Ahmed, H.A., Roy, S. and Bhattacharyya, D.K., 2015. Detecting protein complexes using connectivity among nodes in a PPI Network. *Network Modeling Analysis in Health Informatics and Bioinformatics*, 4(1), pp.35.
17. Agarwal, N., Ahmed, H.A. and Bhattacharyya, D.K., 2015, February. Non-exclusive Clustering: A Partitioning Approach. Proceedings of *International Conference on Emerging Information Technology and Engineering Solutions (EITES)*, 2015 (pp. 7-12). IEEE.
18. Sharma, P., Ahmed, H.A., Roy, S. and Bhattacharyya, D.K., 2015. Unsupervised methods for finding protein complexes from PPI networks. *Network Modeling Analysis in Health Informatics and Bioinformatics*, 4(1), p.8.
19. Hoque, N., Ahmed, H.A., Bhattacharyya, D.K. and Kalita, J.K., 2016. A Fuzzy Mutual Information-based Feature Selection Method for Classification. *Fuzzy Information and Engineering*, 8(3), pp.355-384.
20. Kashyap, H., Ahmed, H.A., Hoque, N., Roy, S. and Bhattacharyya, D.K., 2016. Big data analytics in bioinformatics: architectures, techniques, tools and issues. *Network Modeling Analysis in Health Informatics and Bioinformatics*, 5(1), p.28.
21. Kakati, T., Ahmed, H.A., Bhattacharyya, D.K. and Kalita, J.K., 2016, March. A Fast Gene Expression Analysis using Parallel Biclustering and Distributed Triclustering Approach. Proceedings of the *Second International Conference on Information and Communication Technology for Competitive Strategies* (p. 122). ACM.