

CV for Dr. Minakshi Gogoi

Name: Dr. Minakshi Gogoi

Designation: Associate Professor

Address for Communication: (office) _Dept, of Computer Science and Engineering____
__ GIMT, GCU, N.H.-37, Azara,Guwahati _____
__781017_____

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Sex: Female

Date of Birth: 09/05/1976

Educational Qualifications:

Sl. No.	Examination Passed	Year of passing	Board / Council / University	Specialization	
1	HSLC/10 th Std.	1992	SEBA	Maths, Advance Math, Science	
2	HSSLC/10+2 Std.(Science)	1994	AHSEC	Physics, Chemistry, Maths	
3	Degree (B.Sc.)	1997	B.SC.	Physics Honours with Maths and Statistics	
4	Master's Degree	MCA	2002	Madurai Kamaraj University	Programming in Java, Artificial Intelligence, Data mining
		M.Tech. (Information Technology)	2005	Tezpur University	Image processing, Artificial Intelligence
5	M. Phil.(Please Specify)	N/A			
6	Ph. D. (Computer Science and Engineering)	2015	Tezpur University	Artificial Intelligence, Image processing, Big Dat analytics	

7	Post-Doctoral (Please Specify)	N/A		
8	Others(Certificate Course in Hardware and Computer networking)	2002	Assam Engineering Institute Chandmari, Guwahati	Computer Networking

Languages known:

(Read, Write & Speak) English, Assamese, Hindi, Bengali

Academic Experience:

List of Publications:

Book publishing/ Book chapter :

- I. **Written:** One book on “Biometric Promanekoron”, An Assamese reference book on validation of identity of a user using biometric samples, under a grant from the Commission for Scientific and Technical Terminology, MHRD, Dept. of Higher Education, Govt. of India.

ISBN: 978-81-935387-0-8

First Edition: 2018

- II. **Edited:** Content editor for BCA 3rd & 4th semester programme, KKHSOU for the Course: Software Engineering (GCA S4 16) and Programming in Java (GCA S3 14)
- III. **Book chapter editing:** Content writer for BCA 3rd semester programme, KKHSOU, Course **Operating System**, Unit 3: Threads and Unit 5: Process Synchronization and Co-ordination.
- IV. **Book chapter editing:** Content writer for BCA 6th semester programme, KKHSOU, Course **Image Processing**, Unit 5: Image Enhancement in Spatial Domain, Unit 13: Binary image Processing and Unit 15: Wavelet-based Image Processing

➤ **RESEARCH PAPER PUBLISHED (IN JOURNAL) :**

1. **Ain A., Gogoi M., Chutia “CNN-Enhanced Multi-Indices Patch-Based Classification: A Case Study of Guwahati City”- International Journal for Research in Applied Science &**

Engineering Technology (IJRASET), Volume 9, Issue XII, December 2021, ISSN 2321-9653

2. **Ahmed M., Gogoi, M. “AN EFFECTIVE IMAGE QUALITY ESTIMATION METHOD FOR COLOR IMAGE” International Journal of Computer & Mathematical Sciences**, Volume 6, Issue 8, August 2017, ISSN 2347-8527
3. **Gogoi, M., Devi, G.” FEATURE EXTRACTION TO DETECT CLOUDS FROM SATELLITE IMAGE USING ASSOCIATION RULE MINING ” International journal of advanced electronics & communication systems.,2017**
ISSN NO: 2277-7318
4. **Gogoi, M., Ahmed M.“Image Quality Parameter Detection : A Study” International Journal of Computer Sciences and Engineering : Volume-4, Special Issue-7, Dec 2016**
ISSN: 2347-2693
5. **Das, J, Gogoi, M. “Indexing of Voluminous Data Using K-D Tree with Reference to CBIR” , International Journal of Computer Sciences and Engineering: Volume-4, Special Issue-7, Dec 2016** ISSN: 2347-2693
6. **Gogoi M., Bhattacharyya. D.K, “An Effective Classifier Fusion Approach for Palmprint Based Identity Verification”**, Journal of Basic and Applied Engineering Research p-ISSN: 2350-0077; e-ISSN: 2350-0255; Volume 2, Issue 20; October-December, 2015, pp. 1749-1755.
7. **Gogoi M., Das J., “Indexing of Voluminous Data: Its Needs and Challenges”** Journal of Basic and Applied Engineering Research p-ISSN: 2350-0077; e-ISSN: 2350-0255; Volume 2, Issue 20; October-December, 2015, pp. 1756-1760
8. **Gogoi, M., Devi, G., “CLOUD IMAGE ANALYSIS FOR RAINFALL PREDICTION: A SURVEY”**, **Advanced Research in Electrical and electronic Engineering**, 2(13), 2015

9. Gogoi, M., Bhattacharya, D.K. “AN EFFECTIVE METHOD FOR MULTI-BIOMETRIC FUSION USING SIMULATED ANNEALING”, *International Journal of Computer Applications (0975 8887)* 95(25), June 2014.DOI no.: 10.5120/16747-7044

10. Gogoi, M., Bhattacharyya. D.K., “AN EFFECTIVE FINGERPRINT VERIFICATION TECHNIQUE”, *International Journal of Computer Science and Engineering*, 1(1), May, 2010.

➤ **RESEARCH PAPER PRESENTED/ CONTRIBUTED : In International Conference**
Total 10(Ten)

1. **Gogoi, M. “CLASSIFICATION OF ASSAM SILK FABRICS USING ARTIFICIAL INTELLIGENCE”** presented on North- East Research Conclave and Assam Biotech Conclave 2022- Towards Sustainable Science and Technology , at IIT Guwahati, 20-22 May, 2022

2. **Gogoi, M. “NANOPARTICLE ANALYSIS USING DIGITAL IMAGE PROCESSING”** presented on First International Conference on Evolving materials and Nanotechnology for Sustainable Development(EMNSD-2020), CIT, Kokrajhar, Assam, 15-16 Dec, 2020.

3. **Chakraborty S, Gogoi, M., “AN EFFECTIVE TEA LEAVES QUALITY VERIFICATION METHOD USING MACHINE LEARNING APPROACH”**, presented on Second International Conference on Advances in Electrical , Electronic and System Engineering (ICAEESE 2019), 2-3rd November, 2019.

4. **Gogoi, M. “QUALITY VERIFICATION OF ASSAM SILK USING MACHINE LEARNING AND DEEP LEARNING APPROACHES: A STUDY”**, presented on International Conference on Electrical, Communication, Electronics, Instrumentation and Computing, 30 & 31st January, 2019

5. Gogoi, M. and Bhattacharyya. D.K., “AN EFFECTIVE CLASSIFIER FUSION

- APPROACH FOR PALMPRINT BASED IDENTITY VERIFICATION**”, presented and published on the Proc. of International Conference on Electronic Devices, Circuits, Applied Electronics and Communication technology (EDCAECT 2015), Gauhati University, Guwahati, 8th -10th October, 2015
6. Gogoi, M. and Das J., **“INDEXING OF VOLUMINOUS DATA: ITS NEEDS AND CHALLENGES”**, published on the Proc. of International Conference on Electronic Devices, Circuits, Applied Electronics and Communication technology (EDCAECT 2015), Gauhati University, Guwahati, 8th -10th October, 2015
7. Gogoi, M., Devi, G., **“CLOUD IMAGE ANALYSIS FOR RAINFALL PREDICTION: A SURVEY”** published on the Proc. of **International Conference on Electronic Devices, Circuits, Applied Electronics and Communication technology (EDCAECT 2015)**, Gauhati University, Guwahati, 8th -10th October, 2015
8. Gogoi, M. and Bhattacharyya. D.K., **“FUSION OF FINGERPRINT AND IRIS BIOMETRICS USING BINARY ANT COLONY OPTIMIZATION”**, presented on Third International Conference on Soft computing for problem solving, December 26—28, 2013, Greater Noida Extension Centre, IIT Roorkee, published on AISC series of Springer Journal.
9. Gogoi, M. and Bhattacharyya. D.K., **“BIOMETRICS FUSION, ITS NEEDS AND CHALLENGES”**, presented on International Conference on Green Energy & Smart Materials Through Science, Technology and Management (GESM’14), 21-23 January, 2014, Gauhati University.
10. Gogoi Minakshi, Deka Rupkumar, Mazumdar Deepjyoti, Das Rupam, Barman Manasjyoti, **“ A SECURED TEMPLATE BASED FACE RECOGNITION TECHNIQUE”**, Proc.

International Conference on Advanced Computer Science & Information Technology(ACSIT-2012)Chennai, India, July 2012. ISSN: 2231-5403[Online], ISBN: 978-1-921987-04-5

11. Kalita, S. K., Gogoi, M., and Talukdar, P. H., “**A CEPSTRAL MEASURE OF THE SPECTRAL CHARACTERISTICS OF ASSAMESE AND BODO PHONEMES FOR SPEAKER VERIFICATION**”, Proc. 1st International Conference on Computer, Communication, Control and Information Technology (C3IT-09), pp.233-239, Macmillan Publishers India Ltd, ISBN 023-063-759-0, First Published, 2009.

■ **(In National Conferences / workshop): Total 4(Four)**

1. Gogoi, M., “**DESIGN OF AN AUTOMATED TOOL FOR ARTIFICIALLY RIPENED FRUIT QUALITY DETECTION SYSTEM USING IMAGE PROCESSING**” presented on “**National Conference on Applied Sciences, Sustainable & Evolving Technologies (63rd Annual Technical Session of Assam Science Society)**
2. Gogoi, M. and Bhattacharyya. D.K., “**MULTI-OBJECTIVE OPTIMIZATION PROBLEM SOLVING FOR IMAGE PROCESSING**”, presented on “**National Seminar on Science and Technology for Sustainable development**”, organized by Assam Science Society, Goalpara College, Goalpara, 23rd January, 2016.
3. Gogoi, M. and Bhattacharyya. D.K., “**FUSION OF FINGERPRINT AND IRIS BIOMETRIC USING BINARY PARTICLE SWARM OPTIMIZATION**”, Proc. **National Workshop on Network Security (NWNS 2013) Tezpur University, March 15-16, 2013, Narosa Publishing House Pvt. Ltd., ISBN , Published, 2013.**
4. Gogoi, M. and Bhattacharyya. D.K., “**FINGERPRINT CLASSIFICATION USING MINUTIAE SCORE**”, Proc. **National Conference on Trends in Machine Intelligence 2011, (NCTMI '11), pp. 161-169, Narosa Publishing House Pvt. Ltd., ISBN 978-81-8487-140-1, Published, 2011**

Other Experiences

- Invitation as a Resource Person for “National Workshop on Remote Sensing & GIS”, Dept. of Computer Science, Gauhati University, Guwahati.
- Invitation as a Resource Person for: “**Python Programming**” at the Refresher Course on Machine Learning & Data Science (IDC) organized by UGC-HRDC, Gauhati University during 23rd Feb, 2021 & 24th Feb, 2021
- Invitation as a Resource Person for “**Biometric machine in educational institutions**” at the : RC-Teacher Education on Outcome Educational Reform Pedagogy, Assessment and Quality Assurance (IDC), organized by UGC-HRDC, Gauhati University on 02/03/2021.
- Invitation as a Resource Person for “**Qualitative Data Analysis: (i) Nvivo Applications , Atlas.ti applications**” at the International Workshop on Historical Research Methodology , organized by Post graduate department of History, Gauhati University on 1st March, 2020.
- Invited speaker for “**Talk on Information Technology**” at Asian Institute of Management and Technology on 19th Sep, 2018.

Administrative Experience:

- i) Ph.D. Program Coordinator, GIMT, Guwahati
- ii) Member of Ph.D. Admission Entrance Test,2021-22 under ASTU, Guwahati
- iii) MOOCs SWAYAM Coordinator, GIMT, Guwahati
- iv) Academic coordinator, under graduate programme, Dept, of CSE, GIMT
- v) Member of Research & Consultancy cell, GIMT, Guwahati
- vi) Editor, 1st Technical Magazine of dept. of CSE, GIMT, ‘CompuTec’, 2016.
- vii) Co-ordinator, dept. of CSE, National board of Accreditation (NBA) since 2017 to 2019
- viii) Industry experience as Computer Programmer at DPS Luit Pvt Ltd, a S/W

company at Bora service, Guwahati, for 1 & ½ yrs

- ix) Convener, ‘National Workshop on Big-data Analytics’, 2016 GIMT, Guwahati
- x) Coordinator “One-week National level Faculty Development Programme (FDP) On MOODLE”, 2022
- xi) Co-ordinator of ERP S/W development and on-line Admission portal of GIMT., 2016-2018

Research Experience:

- Doctoral thesis guided :

Name of the Scholar & University	Area of Research	Degree Awarded/thesis submitted or Ongoing
Ms. Shrabani Medhi	Artificial Intelligence, Data Science Continuing since, 2019 January	Ph.D.(CSE), ongoing
Mr. Arindom Ain	Remote Sensing, Image Processing. Continuing since, 2019 January	Ph.D.(CSE), Ongoing

- Research & Consultancy Projects:

Research projects Ongoing:

SI No.	Title & Discipline	Agency	Period	Type of Project Mini/Minor/ Major	Status
1	“Design of an automated tool for detection and verification of purity of Assam Silk”	AICTE. New Delhi (under RPS scheme)	March, 2019- March, 2023	Minor	Ongoing
2	“ Design of an automated tool for verification of purity of Muga Silk”	ASTEC, Dept. of Science & Technology, Govt. of Assam	August, 2019- March, 2023	Minor	Ongoing

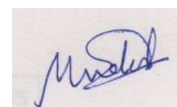
Consultancy Projects Carried Out/Ongoing:

Sl. No.	Title & Discipline	Agency	Period	Completed/ Ongoing
1	Translation of Diploma 1st year technical book from English Language to Assamese Language : “Introduction to IT System & Lab ”	AICTE	From 26.04.2022 to 04.09.2022	Completed,
2	Translation of UG 2 nd year technical book from English Language to Assamese Language : “ Operating System ”	AICTE	From 27 th December 2022 to 2023	Ongoing
3	Review of UG 2 nd year technical book from English Language to Assamese Language : “ IT workshop ”	AICTE	From 27 th December 2022 to 2023	Ongoing

Membership of Professional bodies:

- Associate Member, The Institute of Engineers (India)
Memb. No. : AM100451-7, Regn. No: 100200890270

- Life Member, The Indian Society for Technical Education, Memb. No. LM 110786



Date: 05-01-2023

(Dr. Minakshi Gogoi)