

Profile

1. Personal Detail:

Sruti Sruba Bharali (Ph.D)

Assistant Professor in Computer Science
Hiranya Chandra Bhuyan School of Science and Technology
Krishna Kanta Handiqui State Open University (KKHSOU)
NH 37, Resham Nagar, Khanapara,
Near Bodoland Guest House, Guwahati-781022
Email: srutisbharali@kkhsou.in, sruti.s.bharali@gmail.com
Mobile No: 8822717684

Profile Summary: Dr. Sruti Sruba Bharali, is serving as an Assistant Professor in the Dept. of Computer Science in Krishna Kanta Handiqui State Open University, Guwahati, Assam since January, 2015. She worked as an Assistant Professor in the Dept. of Computer Science and Engineering at Royal Global University from July, 2012 till January, 2015. She was awarded the Doctor of Philosophy (Ph.D) degree by Gauhati University in 2020 for the thesis entitled “Speech Recognition and Speaker Identification with reference to Assamese Language”. She had qualified for the UGC-NET in Computer Application in March, 2013. She had completed her Master’s in M. Tech (Information Technology) from IIIT-Allahabad. Prior to this she had completed her B. Tech degree from Tezpur University. She specializes in the area of Speech Research has many international journal and conference publications in that area. Besides this, she is an avid reader and enjoys spending her time reading books.

Field of Specialisation: Speech Recognition, Bio-informatics

Scholarly Interest: Speech Research, Image Processing

Language Proficiency: English, Assamese and Hindi

2. Educational Qualifications:

<i>Degree</i>	<i>Year</i>	<i>University/Board</i>	<i>Subject</i>
Ph. D	2020	Gauhati University	Computer Science
UGC-NET	2013		Computer Application
M. Tech	2012	IIIT-Allahabad	Information Technology
B. Tech	2010	Tezpur University	Computer Science & Engineering
HS	2006	AISSCE	Science
HSLC	2004	SEBA	

3. Teaching Experience: 8 years

4. Experience in Supervising Dissertation/Thesis:

Supervised four MCA and M. Sc.IT thesis’s and two B.Tech thesis’s.

5. Journal Publications:

Regional

1. Published a paper titled “Application of Data Mining in Biometrics Systems” in Journal of Dimoria College, 10(2), 2012.
2. Published a paper titled “Application of Data Mining in Banking Sector” in Journal of Wealth 6(3), 2011.

International

1. Published a co-authored paper with Dr. Sanjib Kr. Kalita titled “Speech recognition with reference to Assamese language using novel fusion technique”, in Springer *International Journal of Speech Technology*, 21(2), Print ISSN: 1381-2416, Online ISSN: 1572-8110.

2. Published a co-authored paper with Dr. Sanjib Kr. Kalita titled “A comparative study of different features for isolated spoken word recognition using HMM with reference to Assamese language” in Springer *International Journal of Speech Technology*, 18(4), Print ISSN: 1381-2416, Online ISSN: 1572-8110.
3. Published a co-authored paper with Ms. Daisy Das titled “A Comparative Study of Image Restoration Algorithms using Images from different areas of imaging” in *International Journal of Advanced Research in Computer Science*, 4(9). E-ISSN No. 0976-5697
4. Published a co-authored paper titled “Investigation of Coronary Artery Blockade diagnosis through analysis of ill-posed thermo-graphic images” in *International Journal of Computer Engineering and Applications*. ISSN: 2321-3469

6. Chapters/Research Papers in Books:

1. A chapter titled “Role of Krishna Kanta Handiqui State Open University in Higher Education” was published in the edited book “Higher education in India”, by Purbayon Publication in 2018. ISBN: 978-93-87263-73-4
2. Published a chapter titled “Introduction to SQL” in the book titled “Fundamentals of DBMS” Self-Learning Material (SLM) of KKHSOU for MCA 2nd semester, February 2019, ISBN: 978-93-89123-02-9
3. Published a chapter titled “Advanced SQL Commands” in the book titled “Fundamentals of DBMS” Self-Learning Material (SLM) of KKHSOU for MCA 2nd semester, February 2019, ISBN: 978-93-89123-02-9
4. Published a chapter titled “Cyber Crimes” in the book titled “Computer Fundamentals and PC Software” Self-Learning Material (SLM) of KKHSOU for MCA 1st semester, February 2019, ISBN: 978-93-87940-18-5
5. Published a chapter titled “Arrays” in the book titled “Computer Programming Using C” Self-Learning Material (SLM) of KKHSOU for MCA 1st semester, July 2018, ISBN: 978-93-87940-19-2
6. Published a chapter titled “Strings” in the book titled “Computer Programming Using C” Self-Learning Material (SLM) of KKHSOU for MCA 1st semester, July 2018, ISBN: 978-93-87940-19-2
7. Published a chapter titled “Data Communication Modes” in the book titled “Fundamentals of Networking and Web Technology” Self-Learning Material (SLM) of KKHSOU for MCA 1st semester, July 2018, ISBN: 978-93-87940-20-8
8. Published a chapter titled “Shell Programming” in the book titled “Linux System Administration” Self-Learning Material (SLM) of KKHSOU for BCA 5th Semester, June 2019.
9. Published a chapter titled “Segmentation” in the book titled “Operating System” Self-Learning Material (SLM) of KKHSOU for BCA 3rd Semester, June 2018.
10. Published a chapter titled “Fundamentals of Database” in the book titled “Computer Science Applications” as 2nd year Bachelor Preparatory Programme (BPP) Self Learning Material (SLM), July 2016.

7. Other Publications:

International Conferences

1. Presented a paper titled “Online Learning in the time of Covid19 in India” in the International Online Conference on “Teaching-Learning in the Time of Pandemic: Role of Online Learning” held by KKHSOU on 21-22 April 2020
2. Published and presented a paper titled “Speaker Identification with reference to Assamese language using fusion technique” as Conference Proceedings in Second International Conference on Advances in Computing, Control and Communication Technology (IAC3T), September 2018, Electronic ISBN: 978-1-5386-4146-0
3. Published and presented a paper titled “A Study on Perception Towards MOOCs in Traditional Educational Institutions” as Conference Proceedings in International Conference on Developmental Interventions and Open Learning for Empowering and Transforming Society, December 2017, ISBN: 978-81-934669-0-2
4. Published and presented a paper titled “Speaker identification using vector quantization and i-vector with reference to Assamese language” in *Wireless Communications, Signal Processing and Networking (WiSPNET)* (pp. 164-168), March 2017, ISBN: 978-1-5090-4442-9
5. Published and presented a paper titled “Speaker independent isolated word recognition Using hidden markov model and vector quantisation with reference to Assamese language” in

International Conference Electronics and Communication Systems (ICECS), February, 2016, ISBN:

6. Published and presented a paper titled “Zero crossing rate and short-term energy as a cue for sex detection with reference to Assamese vowels” in International Conference for Convergence for Technology, April, 2014, Electronic ISBN: 978-1-4799-3759-2

National Conference

1. Published and presented a paper titled “Portrayal of Violence against Women in Indian Cinema” in National Seminar on “Gender Sensitization in India's North East: Issues and Challenges” organized by KKHSOU in March 2020.

As Book Editor

1. Edited the book titled “Data Structure through C Language”, Self-Learning Material (SLM) of KKHSOU for MCA 2nd semester, February 2019, ISBN: 978-93-89123-03-6
2. Edited the book titled “Open Source Software”, Self-Learning Material (SLM) of KKHSOU for BCA 6th semester, January 2020.
3. Edited the book “Data Structure through C Language”, Self-Learning Material (SLM) of KKHSOU for BCA 2nd semester, January 2018.

Articles/chapters in Newspapers/magazines/Others:

1. Published a Working Paper titled “A Study on Perception of MOOCs in Engineering Colleges” in December 2019 by KKHSOU

8. Seminars/Conferences attended:

Regional

1. Participated in seminar on “Information Security and Cyber Crime”, organized by Royal School of Engineering and Technology, on 2nd March, 2013
2. Participated in seminar on “Frontiers in Nanotechnology (FNT)”, organized by Royal School of Engineering and Technology, on 16th November, 2013
3. Participated in seminar on “Distributed and Cloud Computing”, organized by Royal School of Engineering and Technology, on 16th August, 2014

National

1. Participated in 4th National Symposium on “High Performance Computing in Academia and Beyond”, organized by Assam Engineering College on 5th October, 2013

9. Winter Schools/ Training Programmes/ Workshops/ Webinars attended:

Training Programme's

1. Attended a Training Programme on “Organization Wide Quality Management” organized by CIQA, KKHSOU on 1st November 2019
2. Successfully completed the one-week **Short Term/ In-house training programme** on “Institutional Development”, organized by National Institute of Technical Teacher's Training and Research, from 15th – 19th July 2013
3. Completed a three months Summer Training Project at CSIR-CMMACS, Bangalore in 2009 as a part of completion of B.Tech degree.

Winter Schools

1. Participated in Winter School on Speech and Audio Processing on “Signal Processing for Speech and Hearing Disorders” organized by IIT Guwahati from 19th -22nd January 2018
2. Participated in “Winter School on Speech and Audio Processing (WISSAP)”, organized by Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT) on 4th-7th January, 2015.

Workshops

1. Participated in a four-day workshop on “Online Capacity Building Workshop for Teaching and Academic Staff on Development of MOOCs for ODL Learner” organized by KKHSOU-CEMCA from 22nd – 25th June 2020
2. Participated in a three-day workshop on “Capacity Building of Academic Counsellor of KKHSOU” organized by KKHSOU-CEMCA from 16th – 18th June 2020
3. Participated in a three-day workshop on “Development of E-Content and Facilitation for Online Learning through Moodle LMS including Mobile App” organized by KKHSOU-CEMCA from 21st February to 23rd February 2020
4. Participated in a three-day workshop on "Course Designing Workshop on Diploma in ICT in Education" at SCERT, Assam, Kahilipara from 28th to 30th March 2019.
5. Participated in a three-day workshop on “Development of E-content and Facilitation of Online Learning through Moodle LMS including Mobile App” organized by KKHSOU-CEMCA from 26th to 28th October 2018
6. Participated in a one-day Workshop on Question framing on 21st April, 2017, organized by KKHSOU
7. Participated in workshop on “Adoption and Development of MOOCs in KKHSOU”, organized by KKHSOU in collaboration with Indira Gandhi National Open University (IGNOU) on 28th – 29th June 2018
8. Participated in “IEEE workshop on Latex from Scratch”, organized by IIT Guwahati on 31st March – 1st April 2018
9. Participated in Workshop on “Training of Trainers on Gender Equity”, organized by Rajiv Gandhi National Institute of Youth Development in collaboration with KKHSOU on 8th – 10th January 2018
10. Participated in IEEE workshop on Advanced MATLAB Applications to Robotics and Signal Processions “RASPMAT 2017”, organized by IIT Guwahati on 7th – 8th October 2017
11. Participated in Workshop on “Case Based Methodology”, organized by IBS, Kolkata, 18th July 2017
12. Participated in a workshop on “Development of MOOCs Using Open Educational Resource” on 4th May, 2017, organized by KKHSOU, Guwahati in association with CEMCA.
13. Participated in Workshop on “Emerging Trends and Technologies in Computer Science”, organized by Department of Computer Science, Gauhati University 4th -10th January, 2016
14. Participated in Two-day Workshop on “Android Application Development”, organized by Department of Computer Science, Gauhati University on 13th -14th March, 2015
15. Participated in “Workshop on Advanced Matlab (AdMAT14)”, organized by IIT Guwahati on 30th -31st August, 2014
16. Participated in “Workshop on Image and Speech Processing”, organized by IIT Guwahati on 13th - 14th December, 2013
17. Participated in national workshop on “Use and Deployment of NPTEL Courses” organized by Centre for Educational Technology, IITG on 29th-30th April 2013.
18. Participated in national workshop on “Network Security” organized by Tezpur University on 15th- 16th March 2013

Webinars

1. Attended a Webinar on “Research Issues in Medical Image Processing” organised by Department of Computer Science and Engineering, St. Mother Teresa Engineering College on 25th June 2020
2. Attended a four-day Webinar on Capacity Building Workshop on Development of MOOCs for ODL organised by CEMCA and KKHSOU, held from 22-25th June, 2020
3. Attended Online Training for Academic Counsellors of ODL, organised by CEMCA from 16-18th June, 2020.
4. Attended a Webinar on “AI in Health Care” by Prof. S. M. Hazarika on 8th June 2020, organised by USTM.
5. Attended a Webinar on “Application of Machine Learning techniques in Covid-19 modelling” on 11th June 2020, organised by Royal Global University.
6. Attended a Webinar on “Career Opportunities in Popular Fields of Information Technology” on 9th June 2020, organised by Royal Global University
7. Attended a Webinar on “Commemorating 75th Anniversary of the Victory of the Soviet People in the Great Patriotic War” on 8th May 2020
8. Attended Webinar on “Artificial Intelligence in Education” on 26th June 2020 organised by CEMCA

10. Professional Programmes Completed:

1. Successfully completed UGC-Sponsored **Orientation Programme** held from 2nd August to 29th August 2019, conducted by Human Resource Development Centre, Gauhati University, Guwahati and obtained Grade A.
2. Successfully completed the **Faculty Development Programme** on "Experiential Learning: Nai Talim and Rural Community Engagement" organized by Department of Education, KKHSOU from 2nd to 6th July, 2019
3. Successfully completed the five days **Faculty Development Programme** on "Digital Image Processing with Research Technology" organized by Karpagam College of Engineering from 15th June to 19th June 2020
4. Successfully completed the one week **Online Professional Certification Programme** on "LMS for Educators with Special Focus on Online Evaluation" from 18th May to 24th May 2020
5. Successfully completed an online **certificate courses** on "Understanding Open Educational Resources" offered by Commonwealth of Learning (COL) on 24th June 2020

11. Experience in Organising Conference/ Workshops/Training Programme's/Events:

1. Organized a workshop on "Training of Trainers on Gender Equity" from 8th to 10th January, 2018 at Guwahati College, Guwahati in collaboration with Rajiv Gandhi National Institute of Youth Development and in association with KKHSOU
2. Organized "Computer Security Day" by inviting Dr. Ferdous Ahmed Barbhuiya, Associate Professor, IIIT-Guwahati to deliver a lecture on "Cyber Security and Digital Hygiene" on 30th November, 2019.
3. Organized "Computer Security Day" by inviting Mr. Nanu Alan Kachari, Technical Officer, IIT, Guwahati to deliver a talk on "Information Security Awareness" on 30th November, 2018.

12. Resource person/Expert appointed:

1. Delivered a talk as resource person in Royal Global University on the topic "An Overview of Speech Processing" on 29th June 2020
2. Delivered a talk as resource person in Gauhati University on the topic "Hidden Markov Model" for Ph. D scholars on 18th and 19th March 2019
3. Delivered a talk as resource person in Gauhati University on the topic "Hidden Markov Model" for Ph. D scholars on 2018
4. Invited as Project Viva Expert in Cotton University for supervising 4th year B. Tech final year projects.
5. Represented as External Examiner from KKHSOU several times for examining final year projects and different semester practical examinations.

13. Any other relevant personal information not covered above:

1. Developed and implemented "Students Feedback Software" in Royal Global University to access the feedback of teachers from students.
