

# Curriculum Vitae

## Dr. Ridip Dev Choudhury

Associate Professor in Computer Science  
Krishna Kanta Handiqui State Open University

### Educational Qualifications:

- PhD, Gauhati University
- M.Sc (Computer Science), Gauhati University
- B.Sc (Physics), Gauhati University

### Achievements

- First class 1st position in M.Sc (Computer Science) from Gauhati University
- First class in B.Sc (Physics) from Gauhati University

### Research Interest:

- E-Learning
- Expert System
- Image Processing
- Web Technology

**Teaching Experience:** 16 years

### Research Experience:

1. PhD Supervisor in the Department of Information Technology, Gauhati University since 2017.
2. 1 (one) scholar is awarded PhD Degree by Gauhati University in 2020.

**ODL Experience:** 16 years (Teaching and Software Development)

1. Designed and developed the first official website of KKHSOU, [www.kkhsou.in](http://www.kkhsou.in) (in 2007)
2. Developed the Software for registration and generation of I. Card of KKHSOU (during 2007-2008)
3. Developed the Software for Examination of KKHSOU (during 2008-2009)
4. Designed, Developed & Maintained the official website of IDOL, Gauhati University, [www.idolgu.in](http://www.idolgu.in) from 2005 to 2011
5. Developed & maintained the first edition of the Examination Software of IDOL, Gauhati University till 2019
6. Maintenance of the Office Automation Software of IDOL, Gauhati University since 2005 to 2012

### **Academic Positions Held:**

- 2020 (November) till date: Associate Professor in Computer Science, Krishna Kanta Handiqui State Open University
- 2005 -2020: Assistant Professor, IDOL, Gauhati University
- 2005-2007: Guest Lecturer, Department of Computer Science, Gauhati University
- 2004-2005: Faculty, E & T Division, AMTRON, Assam, India

### **Administrative Experience:**

#### **Academic:**

- Deputy Director(i/c), Centre for Online Learning, KKHSOU

#### **Examination:**

- Zonal Officer, IT Semester Examinations under GUIDOL
- Coordinator, MCQ Based Internal Assessment Examination under GUIDOL

### **Paper Published in Peer Reviewed/ UGC Listed Journals:**

#### **International:**

1. Ahmed, Mazida & Choudhury, Ridip & Kashyap, Kishore. (2020). Race estimation with deep networks. Journal of King Saud University - Computer and Information Sciences. 10.1016/j.jksuci.2020.11.029. ((Elsevier- Scopus / ESCI Indexed)
2. Utpal Barman, Ridip Dev Choudhury, Diganto Sahu, and Golap Gunjan Barman, "Comparison of Convolution Neural Networks for Smartphone Image based Real Time Classification of Citrus Leaf Disease", Computers and Electronics in Agriculture. (Elsevier, SCIE (IF= 3.858), SCOPUS Indexed)
3. Utpal Barman, Ridip Dev Choudhury. 2020. "Smartphone image based digital chlorophyll meter to estimate the value of citrus leaves chlorophyll using Linear Regression, LMBP-ANN and SCGBP-ANN" Journal of King Saud University-Computer and Information Sciences. 2020/1/22. ((Elsevier- Scopus / ESCI Indexed)
4. Utpal Barman and Ridip Dev Choudhury. 2019. "Prediction of Soil pH using Smartphone based digital Image Processing and Prediction Algorithm" Journal of Mechanics of Continua and Mathematical Sciences.14(2).226-249. (Web of Science (ESCI))
5. Utpal Barman and Ridip Dev Choudhury. 2019. "Soil Texture Classification using Multi-SVM" Information Processing in Agriculture. (Elsevier- Scopus Indexed)
6. Utpal Barman and Ridip Dev Choudhury. 2019. "Bacterial and Virus affected Citrus Leaf Disease detection using Smartphone and SVM" International Journal of Recent Technology and Engineering.8(2).4220-4226 (Scopus Indexed)
7. Utpal Barman and Ridip Dev Choudhury. 2018. "Prediction of soil pH using HSI color image processing and regression over Guwahati Assam." Journal of Applied and Natural Science.10(2).805-809 (UGC listed and NAAS indexed)

8. Utpal Barman and Ridip Dev Choudhury. 2018. "Estimation of Chlorophyll using Image Processing." *Int. Journal of Recent Scientific Research*. 9(3).24850-24853 (UGC Listed)
9. Mazida Akhtara Ahmed, Ridip Dev Choudhury."Gender Classification from Facial Images" *International Journal of Engineering and Advanced Technology (IJEAT)* ISSN: 2249–8958. (Elsevier Scopus indexed, peer reviewed, UGC Listed)
10. Mazida Akhtara Ahmed, Ridip Dev Choudhury."Racial Classification from Face", *International Journal of Recent Technology and Engineering*. ISSN: 2277-3878, (Elsevier Scopus indexed, peer reviewed, UGC Listed)
11. Ridip Dev Choudhury, Khurshid Alam Borbora, Shikhar Kumar Sarma "Expert System based Online Assessment System", *International Journal of Applied Information Systems (IJAIS)* – ISSN : 2249-0868, Foundation of Computer Science FCS, New York, USA; Volume 2– No.1, May 2012
12. Ridip Dev Choudhury, Khurshid Alam Borbora, Shikhar Kumar Sarma "ESOA: A Web-Based Expert System For Online Assessment: Prototype Design and Implementation", *International Journal of Computer Science Engineering and Information Technology Research (IJCSEITR)*, ISSN(Print):2249-6831; ISSN(Online): 2249-7943; Volume:3; Issue:2;
13. Khurshid Alam Borbora, Ridip Dev Choudhury & Shikhar Kumar Sarma "A Framework for Agent Based Expert System for Online Assessment in Distributed Database Environment", *International Journal of Computer Networking, Wireless and Mobile Communications (IJCNWMC)*; ISSN(Print):2250-1568; ISSN(Online): 2278–9448; Volume:3; Issue:2;
14. Khurshid Alam Borbora, Ridip Dev Choudhury & Shikhar Kumar Sarma, "Agent Based Expert System for Online Assessment in Distributed Database Environment: Prototype Design and Implementation", *International Journal of Innovative Research in Computer and Communication Engineering (IJIRCCE)*, ISSN(Online): 2320-9801; ISSN (Print): 2320-9798; Vol. 2, Issue 2;
15. Khurshid Alam Borbora, Ridip Dev Choudhury & Shikhar Kumar Sarma, "Agent Based Expert System For Online Assessment In Distributed Database Environment With Agent Cloning: A Modification", *International Journal on Future Revolution in Computer Science & Communication Engineering* ISSN: 2454-4248
16. Ridip Dev Choudhury, Khurshid Alam Borbora, " MOOC: Current Trends and Future Prospects", *International Journal of Engineering Technology Science and Research* ISSN 2394 – 3386.

#### **Paper Published in Conference Proceedings:**

1. " Comparative Assessment of AR, MA and ARMA for the Time Series Forecasting of Assam and Meghalaya Rainfall Division", *Proceedings of the 2020 International Conference on Computational Performance Evaluation (ComPE)*North-Eastern Hill University, Shillong, Meghalaya, India. Jul 2-4, 2020
2. "Predication of Soil pH using K mean Segmentation and HSV Color Image Processing", *Proceedings of the 13th INDIACom; INDIACom-2019; IEEE Conference ID: 46181* 2019 6th International Conference on "Computing for Sustainable Global Development",

13th - 15th March, 2019 Bharati Vidyapeeth's Institute of Computer Applications and Management (BVICAM), New Delhi

3. "Performance Analysis of SVM classification for citrus diseases classification", IEEE sponsored Second International Conference on Advances in Electrical, Electronic and System Engineering, 2019 organised by Department of Physics, Gauhati University (Will be published in IEEE Explore)
4. "Expert System for Diagnosis of Diseases of Rice Plants: Prototype Design and Implementation", Proceedings of the IEEE International Conference on Automatic Control and Dynamic Optimization Techniques (ICACDOT 2016) September 9-10, 2016 organised by International Institute of Information Technology, Hinjawadi, Pune, India

#### **FDP/Webinar Organized:**

1. Coordinator of the National Webinar on "Pedagogical Innovation for Online Teaching and Learning" organized by GUIDOL on 22th August, 2020
2. Coordinator of the one week Online Faculty Development Program on "E-Learning Platform" organized by GUIDOL in association with E&ICT Academy, IIT Guwahati from 20-27 July, 2020
3. Organizing Committee member in Publicity/Communication section of "The International Conference on Frontiers in Mathematics" held in 26-28 March, 2015 organised by Department of Mathematics, Gauhati University
4. Conducted and Coordinated 10 Days Faculty Development Training Programme on "ICT Based Teaching" from 21/06/2014 to 30/06/2014 at IDOL, Gauhati University organized by IDOL, Gauhati University.

#### **FDP/Refresher/Orientation/Workshop/Training Attended (Two/One week Duration):**

1. One week online Faculty Development Program (FDP) on "Emerging Technologies for Education and Research in Industry 4.0" organized by Bharati Vidyapeeth Institute of Computer Applications and Management, New Delhi in association with IEEE Delhi Section, AICTE New Delhi, Computer Society of India during 06 - 10 July, 2020
2. Two week UGC Sponsored Refresher Course in ICT & MOOC (ID) from 04/07/2019 to 17/07/2019 organised by UGC HRDC, Gauhati University
3. One week Winter Training Programme on "Python Programming Language" from 02/01/2019 to 07/01/2019 organised by E&ICT Academy, IIT Guwahati and Mantra Associates
4. One week National level Workshop on Big Data (Data Analytics) from 2nd to 6th January, 2017 organised by GUIST, Gauhati University
5. One week National Workshop on Remote Sensing and GIS, 24<sup>th</sup> to 30<sup>th</sup> October, 2016 organised by Department of Computer Science, Gauhati University
6. One week Workshop on "Emerging Trends and Technologies in Computer Science", 4<sup>th</sup> to 10<sup>th</sup> January, 2016 organised by Department of Computer Science, Gauhati University
7. Two week UGC Sponsored Refresher Course from 17-02-2014 to 09-03-2014 organised by Academic Staff College, Gauhati University.

8. Three week UGC Sponsored Orientation Programme from 22-07-2013 to 18-08-2013 organised by Academic Staff College, Gauhati University.
9. One week Workshop on "Free & Open Source Software (FOSS)" Organized by the Department of Information Technology, Gauhati University in association with National Resource Centre for Free and Open Source Software (NRCFOSS), Anna University from 16th December 2011 to 22nd December 2011.

#### **MOOCs Completed:**

- Completed the 2-week online Faculty Development Program on “Development of Course for SWAYAM” offered by Netaji Subhash Open University in collaboration with Commonwealth Educational Media Centre for Asia (CEMCA) from 19 th May, 2021 to 2<sup>nd</sup> June, 2021.
- MOOC in Introduction to Technology Enabled Learning by Commonwealth of Learning and Athabasca University, Canada in 2020
- MOOC in "Introduction to Cloud Computing", IEEE & EdX in 2015
- MOOC in "Understanding Open Educational Resources using Technology Enabled Learning Lounge", Commonwealth of Learning (COL) in 2015
- MOOC in "MOOC on MOOC", IIT Kanpur & COL, Vancouver, Canada, 2014
- MOOC in "Design and Development of Educational Technology", The Massachusetts Institute of Technology (MITx), Cambridge, United States, 2014 through EdX

#### **Webinar/Conference/Seminar Attended:**

1. Participated in the Webinar on "Citation and Reference Management Using Mendeley" organized by Bharati Vidyapith Institute of Computer Applications and Management", New Delhi on 14th August, 2020
2. Participated in the Webinar on "Unleashing Data Science and AI" organized by Bharati Vidyapith Institute of Computer Applications and Management", New Delhi on 8th August, 2020
3. Participated in the three-day Online International Workshop on “Design, Develop and Implement Online Teaching”, scheduled during 29, 30 & 31 July, 2020, organised by Discipline of Education Under SKBSSS, Krishna Kanta Handiqui State Open University, Guwahati, Assam.
4. Participated in the Webinar on "Simplifying IPR and Patent Filing" organized by Bharati Vidyapith Institute of Computer Applications and Management", New Delhi on 24th July, 2020
5. Participated in the Webinar on "BlochChain - Technological Perspective" organized by Bharati Vidyapith Institute of Computer Applications and Management", New Delhi on 18th July, 2020
6. Participated in the Webinar on "Build Your Own Machine Learning Model" organized by Bharat Institute of Engineering and Technology, Hyderabad on 16th July, 2020
7. Participated in the Webinar on "Bio Medical Applications Using Deep Learning" organized by Mahatma Gandhi University, Hyderabad on 16th July, 2020

8. Participated in the Webinar on "Person Identifier Using Python and OpenCV" organized by Andhra Loyola Institute of Engineering and Technology, Andhra Pradesh on 14th July, 2020
9. Participation in the Webinar on "New Challenges in Higher Education: Implications for Quality Assurance" organized by University of Science and Technology, Meghalaya on 13th July, 2020
10. Participated in the Webinar on "Internet of Things (IoT) - Industrial Perspective" organized by Bharati Vidyapith Institute of Computer Applications and Management", New Delhi on 11th July, 2020
11. Participation in Two Day Webinar on "Recent Trends in Cyber Crime" organized by Department of Computer Science and Engineering, Rajiv Gandhi University, Rono Hills, Doimukh on 3rd–4th July, 2020
12. Participated in the Webinar on "5G-Myth busters and benefits for Indian environment" organized by Bharati Vidyapith Institute of Computer Applications and Management", New Delhi on 2nd July, 2020
13. Participated in the 11 days online workshop on "Emerging Trends and Future Computing Technologies" organized by Department of Computer Science & Technology, Bodoland University from 15th May - 27th May, 2020.
14. Participated in the Online International Conference on "Teaching-Learning in the Time of Pandemic: Role of Online Learning ", scheduled during 21, 22 April, 2020, organized by Krishna Kanta Handiqui State Open University, Guwahati, Assam in Collaboration with CEMCA New Delhi, India.
15. International Conference on Electronic Devices, Circuits, Applied Electronics and Communication Technology (EDCAECT 2015) organised by Department of Electronics and Communication Technology, Gauhati University and Krishi Sanskriti, New Delhi, India
16. Participated in the two days workshop on "Role of Students Support Services in Open and Distance Learning (Application of ICT and e-governance)" *on 30<sup>th</sup> March & 31<sup>st</sup> March 2014 organized by* Institute of Distance and Open Learning, Gauhati University in collaboration with Distance Education Bureau, University Grants Commission, New Delhi
17. Participated in the five days TOT workshop on "Community Radio Technology" from 16/06/2014 to 20/06/2014 organized by IDOL, Gauhati University in collaboration with Commonwealth Educational Media Centre for Asia (CEMCA) & Broadcast Engineering Consultants India Ltd. (BECIL)
18. Participated in the workshop on "Quality Assurance in Open and Distance Learning: Role of Student Support Services", organized by Institute of Distance and Open Learning, Gauhati University on March 30<sup>th</sup> and 31<sup>st</sup> March, 2013 in collaboration with Distance Education Council, IGNOU, New Delhi
19. Participated in the workshop on "Design and Development of Audio-Video and Multimedia Material for Distance Learners", organized by Institute of Distance and Open

Learning, Gauhati University on March 9<sup>th</sup> and 10<sup>th</sup>, 2013 in collaboration with Distance Education Council, IGNOU, New Delhi

20. Participated in the workshop on “e-Governance” organized by Department of Information Technology, Gauhati University and sponsored by Ministry of Communications and Information Technology, Govt. of India, on 26<sup>th</sup> December, 2012
21. Participated in the two days national workshop on “*Content Generation Using Open Source Tools*” on 11<sup>th</sup> March & 12<sup>th</sup> March 2011 organized by *Directorate of Distance Education, School of Educational Technology, Jadabpur University*.
22. Participated in the one day national seminar on “*New Paradigms in Open Learning (NOPL)*” on 10<sup>th</sup> March 2011 organized by *Directorate of Distance Education, School of Educational Technology, Jadavpur University*.
23. Participated in the 14<sup>th</sup> National Conference of Indian Distance Education Association, November 14 -18, 2008 hosted by Gauhati University, Assam, India
24. Participated in the 15<sup>th</sup> International Conference on Advanced Computing & Communication, 18 - 21 December, 2007 hosted by IIT, Guwahati, Assam, India

#### **Book Chapters as Author:**

1. Contributed three chapters in the text book (SLM) IT14: Operating System for MSc-IT/MCA Course of GUIDOL published by GUIDOL
2. Contributed four chapters in the text book (SLM) CCA2: Introduction to Programming, Internet and Web Programming for CCA Course of GUIDOL published by GUIDOL.
3. Contributed one chapter in the text book (SLM) Artificial Intelligence for MCA Course of GUIDOL published by GUIDOL with ISBN 978-93-84018-58-0

#### **Book Chapters as Editor:**

1. Edited three chapters in the text book (SLM) IT14: Operating System of MSc-IT/MCA Course of GUIDOL published by GUIDOL
2. Edited three chapters in the text book (SLM) CCA2: Introduction to Programming, Internet and Web Programming for CCA Course of GUIDOL published by GUIDOL.

#### **Online Learning Activity:**

- Designed, developed and maintained "Bodhidroom", the e-learning portal of GUIDOL in 2009 which is the first e-learning portal of North-East India.
- Coordinator for implementation of Online Learning System for GUIDOL.
- Created the e-content in four quadrants approach for MSc-IT/PGDCA 1st semester & PGDCA 2nd semester program offered by GUIDOL.

#### **Resource Person:**

1. Delivered a talk on the topic “Design and development of MOOC” on the 7 days online workshop on “Computational Technologies” organized by the Department of Computer Science & Technology, Bodoland University on 12<sup>th</sup> June, 2021.

2. Key Note speaker in the Online Faculty Development Program on "Moodle Learning Management System" organized by IQAC, Mangaldoi College in association with IIT Bombay from 16th - 20th July, 2020
3. Session Co-Chair in International Conference on Computational Performance Evaluation(ComPE) on July 2nd – 4th, 2020 organized by NEHU, Shillong, Meghalaya.
4. Acted as a chair person in "The International Conference on Frontiers in Mathematics" held in 26-28 March, 2015 organised by Department of Mathematics, Gauhati University
5. UGC-NET Examination Coaching Programme (November-December, 2016) Organised by PETC, GU
6. UGC-NET Examination Coaching Programme (November-December, 2015) Organised by PETC, GU
7. UGC-NET Examination Coaching Programme (May-June, 2015) Organised by PETC, GU
8. UGC-NET Examination Coaching Programme (November-December, 2014) Organised by PETC, GU
9. UGC-NET Examination Coaching Programme (May-June, 2014) Organised by PETC, GU
10. UGC-NET Examination Coaching Programme (November-December, 2013) Organised by PETC, GU
11. UGC-NET Examination Coaching Programme (May-June, 2013) Organised by PETC, GU
12. UPSC Civil Services Preliminary Examination Coaching Programme (January-April, 2013) Organised by PETC, GU
13. UGC-NET Examination Coaching Programme (November-December, 2012) Organised by PETC, GU
14. UGC-NET Examination Coaching Programme (May-June, 2012) Organised by PETC, GU
15. UGC-NET Examination Coaching Programme (November-December, 2011) Organised by PETC, GU
16. UGC-NET Examination Coaching Programme (May-June, 2011) Organised by PETC, GU
17. Ph D Scholars Programme (Humanities) (I) (9 – 29 March 2009) Organised by Academic Staff College
18. Professional Development Programme for Non-Academic Staff (II) (8–13 Sept 2008) Organised by Academic Staff College
19. Professional Development Programme for Non-Academic Staff (I) (8–13 Sept 2008) Organised by ASC, GU
20. RC/Life science (ID) (16 Feb to 8 Mar 2009) Organised by ASC, GU



21. RC/North East Studies (I) (ID) (9 Feb to 1 March 2009) Organised by ASC, GU
22. RC/Woman Studies (III) (ID) (19 Jan to 8 Feb 2009) Organised by ASC, GU
23. RC/Political science (XVIII) (15 Dec 2008 to 4 Jan 2009) Organised by ASC, GU
24. RC/Mass communication (ID) (III) (17 Nov to 7 Dec 2008) Organised by ASC, GU
25. RC/Education (XIII) (22 October to 11 November 2008) Organised by ASC, GU
26. RC/Assamese (XXI) (22 October to 11 November 2008) Organised by ASC, GU
27. Orientation Programme (OP76) (16 June to 13 July 2008) Organised by ASC, GU
28. Orientation Programme (OP76) (28 April to 25 May 2008) Organised by ASC, GU
29. Orientation Programme (OP75) (28 April to 25 May 2008) Organised by ASC, GU
30. Refresher Course in Environmental Studies (VI) (ID) (10 March to 30 March 2008) Organised by ASC, GU
31. Refresher Course/ Women Studies (I) (ID) (9 July to 29 July 2007) Organised by ASC, GU
32. Refresher Course/ Commerce XI (21 January to 10 February 2008) Organised by ASC, GU
33. Refresher Course in Mass Communication (II) (23 December 2007 to 12 January 2008) Organised by ASC, GU
34. Orientation Programme (OP73) (3 December to 30 December 2007) Organised by ASC, GU
35. Refresher Course in Political Science (XVII) (12 November to 2 December 2007) Organised by ASC, GU
36. Refresher Course in Assamese (XX) (12 November to 02 December 2007) Organised by ASC, GU
37. Refresher Course in Assamese (XIX) (9 July to 29 July 2007) Organised by ASC, GU
38. Orientation Programme (OP72) (11 June to 8 July 2007) Organised by ASC, GU
39. Orientation Programme (OP71) (11 June to 8 July 2007) Organised by ASC, GU
40. Refresher Course in Computer Education & IT (I) (MD) (11 March to 31 March 2007) Organised by ASC, GU
41. Refresher Course in Mass Communication (MD) (I) (19 February to 11 March 2007) Organised by ASC, GU
42. Orientation Programme (OP70) (12 February to 11 March 2007) Organised by ASC, GU
43. Refresher Course in Bodo (II) (29 January to 18 February 2007) Organised by ASC, GU
44. Refresher Course in Assamese (XVIII) (22 January to 11 February 2007) Organised by ASC, GU
45. Refresher Course in Political Sc (XVI) (18 December 2006 to 07 January 2007) Organised by ASC, GU

46. Refresher Course in Education (XII) (18 December 06 to 07 January 2007) Organised by ASC, GU
47. Refresher Course in Env.Education (MD) (V) (6 to 26 November 2006) Organised by ASC, GU
48. Orientation Programme (OP69) (06 November to 03 December 2006) Organised by ASC, GU
49. Orientation Programme (OP68) (28 August to 24 September 2006) Organised by ASC, GU
50. Refresher Course in Assamese (XVII) (12 June to 02 July 2006) Organised by ASC, GU
51. Orientation Programme (OP67) (15 May to 11 June 2006) Organised by ASC, GU
52. Refresher Course in Economics (XII) (27 February 06 to 19 March 2006) Organised by ASC, GU
53. Orientation OP66 (30 January 06 to 26February 2006) Organised by ASC, GU
54. Refresher Course in Commerce (IX) (19 December 05 to 08 January 2006) Organised by ASC, GU
55. Refresher Course in Environmental Edu (III) Multidisciplinary (30 November to 20 December 2005) Organised by ASC, GU
56. Refresher Course in Value Education (I) Multidisciplinary (7 to 27 November 2005) Organised by ASC, GU