**Dr. Deepjyoti Choudhury, B.Tech(IT), M.Tech(IT), Ph.D.(CSE) – Assam University,**
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## CREDENTIALS:

- **12 years** of experience in Teaching.
- **3 years** of experience as Programme Coordinator.
- Skills in recent technologies like **AI, Data Science, ML, Python Programming** etc.
- Earned global certifications in Azure.
- Managerial ability, Hardworking and believe in teamwork with positive attitude.

## PROFESSIONAL EXPERIENCE

1. Currently working as **Associate Professor** in Dept. of Computer Science & Engineering at Assam Royal Global University, Guwahati.
2. Worked as **Assistant Professor (Senior Scale)** in School of Computer Science & Engineering at Manipal University Jaipur (NIRF 64$^{th}$ Rank) from 17$^{th}$ August 2022 till 10$^{th}$ December '24.
3. Worked as **Senior Faculty (IT)** at Techno India University, Kolkata from 17$^{th}$ August 2020 to 9$^{th}$ August 2022.
4. Worked as **Academic Mentor** of East Zone, SOS Children's Village, India from 5$^{th}$ November 2019 to 14$^{th}$ August 2020.
5. Worked as **Programme Coordinator** in Computer Science & Engineering, **Assam down town University, Guwahati** from 1$^{st}$ November 2017 to 25$^{th}$ October 2019.
6. Worked as **Assistant Professor** in the department of Computer Science & Engineering, **Assam down town University, Guwahati** from 1$^{st}$ August, 2013 to 25$^{th}$ October, 2019.
7. **Research Fellow** in the Department of Machine Intelligence Unit (Centre for Soft Computing Research), **Indian Statistical Institute-Kolkata**, worked since 16$^{th}$ July, 2012 to 2$^{nd}$ May, 2013.
8. **Part time faculty** at District Computer Centre, Nalbari, worked since May-November, 2012.
9. **Trainee at Crezone Technologies, New Delhi**, worked since 1$^{st}$ February to 15$^{th}$ May, 2011.

## SCHOLASTIC ACHIEVEMENTS

- ➢ **Online Certification:**
1. Earned global certification on **"Microsoft Azure Fundamentals"** on 6$^{th}$ May 2021.
2. Earned global certification on **"Microsoft Azure Data Fundamentals"** on 29$^{th}$ May 2021.
3. Earned global certification on **"Microsoft Azure AI Fundamentals"** on 26$^{th}$ June 2021.
4. Earned global certification on **"AWS: Introduction to Amazon Elastic Compute Cloud (EC2)"** on 8$^{th}$ September 2021.
5. Completed a course namely **"Machine Learning & Data Analytics using Python"** from 6$^{th}$-14$^{th}$ May 2020 conducted by **EICT Academy, IIT Roorkey**.
6. Completed a course namely **"Introduction to Python"** authorized & offered by **DataCamp**.
7. Completed a course namely **"What is Data Science?"** authorized by **IBM** and offered by Coursera.
8. Completed a course namely **"Open Source tools for Data Science"** authorized by **IBM** and offered by Coursera.
9. Completed a course namely **"Data Science Methodology"** authorized by **IBM** and offered by Coursera.

10. Completed a course namely **"Python for Data Science and AI"** authorized by **IBM** and offered by Coursera.
11. Completed a course namely **"Databases and SQL for Data Science"** authorized by **IBM** and offered by Coursera.
12. Completed a course namely **"Data Analysis with Python"** authorized by **IBM** and offered by Coursera.
13. Completed a credit course namely **"Deep Learning – Part 1"** from **NPTEL.**

➤ **Publications:**

- **Journals:**

1. A. Singh, S. Kumar, **D. Choudhury,** "Deep Learning Driven Real-Time Airspace Monitoring using Satellite Imagery", *Scalable Computing: Practice and Experience*, Volume 25, Issues 6, pp. 5672–5687, 2024 (DOI 10.12694/scpe.v25i6.3101) (Q2).
2. **D. Choudhury,** T. Acharjee, "A Novel PSO-based Intelligence Link Prediction Algorithm in Real World Networks", *Bulletin of Electrical Engineering and Informatics (BEEI)*, Volume 13, No. 3, pp. 1980-1990, 2024 (DOI: 10.11591/eei.v13i3.6761) (Q2).
3. A. Das, **D. Choudhury**, A. Sen, "A collaborative empirical analysis on machine learning based disease prediction in health care system", *International Journal of Information Technology,* Volume 16, pages 261–270, 2023 (https://doi.org/10.1007/s41870-023-01556-5) (Q1).
4. **D. Choudhury,** T. Acharjee, "A Scalable Approach for Strengthening Social Media Ties Using Multi-Dimensional Analysis", *Revue d'Intelligence Artificielle,* vol. 37, issue 4, pp. 1047-1055, 2023 (https://doi.org/10.18280/ria.370427) (Q2).
5. **D. Choudhury,** T. Acharjee, "A Deep Community Detection Approach in Real Time Networks", *Scalable Computing: Practice and Experience*, Volume 24, Issues 4, pp. 985–997, 2023 (https://www.scpe.org/index.php/scpe/article/view/2475) (Q2).
6. **D. Choudhury,** T. Acharjee, "A Novel Approach to Fake News Detection in Social Networks using Genetic Algorithm Applying Machine Learning Classifiers", *Multimedia Tools And Applications*, Volume 82, Issue 6, pp. 9029–9045, 2023, (https://doi.org/10.1007/s11042-022-12788-1) **(Impact factor: 3.6)** (Q1).
7. R.K, Singh, **D. Choudhury**, and A. Sen, "photosav: A Tkinter Based Photo Editing Application", *Spectrum: Science and Technology*, Volume: 9, pp. 25-33, 2022 (https://doi.org/10.54290/spect/2022.v9.1.0003).
8. **D. Choudhury**, "Real Time and Low Cost Smart Home Automation System Using Internet of Things Environment", *International Journal of Computer Sciences and Engineering*, ISSN: 2347-2693, Vol.7, Issue.4, pp.225-229, 2019 (https://doi.org/10.26438/ijcse/v7i4.225229) 1**(Impact factor: 3.802)**.
9. K. Biswa, B. Jamatia**, D. Choudhury**, P.Borah, "Comparative Analysis of C, Fortran, C# and Java Programming Languages", *International Journal of Computer Science and Information Technologies*, *,* eISSN: 0975-9646, Vol. 7 (2) , pp. 1004-1007 , April, 2016 **(Impact factor: 3.32)**.
10. **D. Choudhury**, A. Paul, "Community Detection in Social Networks: An Overview", *International Journal of Research in Engineering and Technology,* eISSN: 2319-1163*, vol. 02,* pp. 83-88, December, 2013 **(Impact factor: 1.962)**.
11. S. Roy, S. Dhar, A. Paul, S. Bhattacharjee, A. Das, **D. Choudhury**, "Current Trends of Opinion Mining and Sentiment Analysis in Social Networks", *International Journal of Research in Engineering and Technology,* eISSN: 2319-1163*, vol. 02,* pp. 113-117, December, 2013 **(Impact factor: 1.962)**.

- **Conferences:**

1. A. Mukherjee, R. Nambiar, **D. Choudhury**, "Machine Learning based Real Estate Price Prediction", 8th International Conference on Inventive Systems and Control (ICISC), JCT College of Engineering &

Technology, Tamil Nadu, 29th-30th July 2024, proceedings published in IEEE Digital Library (DOI: 10.1109/ICISC62624.2024.00067).

2. S. Kumar, A. Singh, **D. Choudhury**, "Liver Disease Diagnosis Using Machine Learning And Deep Learning Techniques: An Experimental Approach", *4th International Conference on Advances and Applications of Artificial Intelligence and Machine Learning,* Sharda University, 28th-29th December 2023, proceedings to be published with Springer Lecture Notes in Electrical Engineering series

3. K. Pal, S. Panwar, **D. Choudhury**, "A Pragmatic Approach of Heart and Liver Disease Prediction using Machine Learning Classifiers", *4th International Conference on Emerging Systems and Intelligent Computing (ESIC- 2024),* KIIT University, 9th-10th February 2023, proceedings published in IEEE Digital Library (DOI: 10.1109/ESIC60604.2024.10481536).

4. S. Kumar, A. Singh, **D. Choudhury**, "A Collective Approach of Drone Detection System based on Machine Learning and Deep Learning", 2nd *Doctoral Symposium on Human Centered Computing (HUMAN 2024)*, Kolkata, 30th March 2024, proceedings to be published with Springer Lecture Notes in Electrical Engineering series (https://www.springer.com/series/7818).

5. S. Kumar, A. Singh, **D. Choudhury**, "Tomato Leaf Disease Prediction based on Deep Learning Techniques", *International Conference on Computation of Artificial Intelligence & Machine Learning,* Manipal University Jaipur, 18th-19th January 2024, proceedings to be published with Springer Lecture Notes in Communications in Computer and Information Science (ISSN: 1865-0929).

6. **D. Choudhury,** T. Acharjee, "Effective Estimation of Relationship Strength among Facebook Users Applying Pearson Correlation and Jaccard's Coefficient", *Doctoral Symposium on Human Centered Computing (HUMAN 2023)*, Kolkata, 25th February 2023 (https://doi.org/10.1007/978-981-99-3478-2_2).

7. **D. Choudhury,** T. Acharjee, "A Swarm Intelligence Based Community Detection Algorithm in Social Networks", *4th International Conference on Artificial Intelligence and Speech Technology*, IGDTUW Delhi, 9th-10th December 2022 (https://doi.org/10.1109/AIST55798.2022.10065333).

8. **D. Choudhury,** T. Acharjee, "An Empirical Analysis of Naïve Bayes, SVM, Logistic Regression and Random Forest to Spot False Information in Real-World Networks", *International Conference on Intelligent Controller and Computing for Smart Power*, Hyderabad, 21st-24th July 2022 (https://doi.org/10.1109/ICICCSP53532.2022.9862430).

9. **D. Choudhury**, S. Bhattacharjee, A. Das, "An Empirical Study of Community and Sub-Community Detection in Social Networks Applying Newman-Girvan Algorithm", *Proceedings of International Conference on Emerging Trends and Applications in Computer Science (ICETACS-2013),* ISBN: 978-1-4673-5249-9, pp. 74-77, 13th-14th September, 2013 (https://doi.org/10.1109/ICETACS.2013.6691399)

10. **D. Choudhury**, A. Paul, "Patterns and Measures Aspects of Social Network Analysis: A Brief Survey", *Proceedings of International Conference on Computation and Communication Advancement (IC3A),* ISBN-13:978-1-25-906393-0, pp. 362-368, Kalyani, 11th-12th January, 2013 (Published by Tata McGraw Hill).

11. A. Das, **D. Choudhury**, S. Bhattacharjee, "Cloud Computing: What, How and Why?", *Proceedings of National Conference on Research and Higher Education in Information Technology(RHEIT),* pp. 155-158, Silchar, 4th-5th February, 2013.

➢ **Reviewer:**
    1. Reviewer of several manuscripts in Scalable Computing: Practice and Experience (Journal).
    2. Reviewer of manuscript in Scientific Reports (Q1 Journal).
    3. Reviewer of International Conference on Innovations in Data Science, Manipal University Jaipur, 28th-29th November 2024.
    4. Reviewer of International Conference on Computation of Artificial Intelligence & Machine

Learning, Manipal University Jaipur, 18th-19th January 2024.

5. Reviewed a research paper in WIREs Data Mining and Knowledge Discovery published by WILEY in December, 2017 (Journal).

6. Reviewer of International Conference on Intelligent Systems, Advanced Computing and Communication – 2023 (ISACC-2023), 03-04 February, 2023 (IEEE Conference Record Number: 56298)

> **Student Projects (Academic):**

1. Liver Disease Diagnosis Using Machine Learning And Deep Learning Techniques
2. Machine Learning based Real Estate Price Prediction
3. Deep Learning Based Tomato Leaf Disease Prediction Approach
4. A Pragmatic Approach of Heart and Liver Disease Prediction using Machine Learning Classifiers
5. A Collective Approach of Drone Detection System based on Machine Learning and Deep Learning
6. A Collaborative Empirical Analysis on Machine Learning Based Disease Prediction in Health Care System
7. photosav: A Tkinter Based Photo Editing Application
8. Real Time and Low Cost Smart Home Automation System Using Internet of Things Environment
9. A Comparative Analysis on Various Sorting Algorithm
10. Comparative Analysis of C, Fortran, C# and Java Programming Languages

> **Webinar:**
1. Participated in an international webinar on **"Research Methodology – Cotemporary Challenges"** organized by Dept. of CSE, Assam University on 28th September 2021.
2. Participated in an international webinar on **"Intelligent Computing"** organized by Dept. of CSE, Assam University on 12th September 2020.
3. Participated in the national level webinar on **"Cyber Security: Attacks & Defenses"** organized by Dept. of BCA, Jain University (Deemed-to-be) on 25th & 26th July 2020.
4. Participated in the national level webinar on **"Cloud Computing: Its Challenges and Research Scope"** organized by Dept. of BCA, Jain University (Deemed-to-be) on 8th August 2020.

## AREA OF INTERESTS

Artificial Intelligence, Social Network Analysis, Machine Learning, Deep Learning, Soft Computing.

## ADMINISTRATIVE EXPERIENCE (ACADEMIC)

1. Process Owner of KPI at MUJ.
2. Departmental Examination Coordinator at MUJ.
3. Convenor of Outreach Activities at MUJ.
4. Convenor of Bootcamp & Ideathon at MUJ.
5. Class & Course Coordinator at MUJ.
6. BoS member at MUJ.
7. Member of GS&A at MUJ.
8. Departmental Meeting Coordinator at MUJ.
9. Operating and maintenance of ERP System at AdtU.
10. Member Secretary, Faculty Advisory Committee, AdtU.

11. Tabulation Work (Result & Mark-sheet Preparation).
12. Member of NAAC SSR Evaluation committee of AdtU.
13. Coordinator of the Academic Report/Annual Report of the department, AdtU.
14. Chairman, Admission Committee, Dept. of CSE, AdtU.
15. Coordinator of the Asset Management of the department.
16. Coordinator of the departmental requisition.
17. Core Committee member of UGC document preparation of AdtU.
18. Conducted industrial visits in IOCL and Doordarshan Kendra (Guwahati) for the students.

## ACADEMIC PROJECTS

1. **"Design and Implementation of Efficient Techniques for Social Network Analysis"** as Ph.D. thesis.
2. **"Community Detection in Social Network Analysis"** as M.Tech thesis.
3. **"Toll plaza Surveillance System"** using ASP.NET (version 2008) and MS SQL Server (version 2005) as B.Tech major project.
4. **"College Record Management System"** using ASP.NET (version 2008) and MS SQL (version 2005) Server as B.Tech mini project (7th semester).
5. Mini-project on **"Networking Configuration using VLAN and Routing Protocols using Boson NetSim Router Simulator"** as summer training, 2010 in **Ardent Collaboration, Salt Lake, Kolkata.**

## • Participation of FDP(s)/Training(s)/Workshop(s)/Technical Festival:

1. Participated in ATAL Academy FDP on **"Integration of IoT and Blockchain to Implement Smart Education, Healthcare and Communication System"** from 11th – 16th December 2023 held at Manipal University Jaipur.
2. Participated in ATAL Academy online FDP on **"Data Analysis using Econometric Models"** from 7th February 2022 to 11th February 2022 held at Central University of Tamil Nadu.
3. Participated in ATAL Academy online FDP on **"IoT in 5G Technology"** from 21st June 2021 to 25th June 2021 held at Silicon Institute of Technology.
4. Participated in online FDP on **"Artificial Intelligence"** from 17th May 2021 to 28th May 2021 held at iNurture Education Solutions Ltd.
5. Participated in ATAL Academy online FDP on **"Neural Network and Deep Learning"** from 23rd November 2020 to 27th November 2020 held at GGS Indraprastha University, New Delhi.
6. Participated in ATAL Academy online FDP on **"Computer Science & Biology"** from 5th October 2020 to 9th October 2020 held at NIT, Arunachal Pradesh.
7. Participated in online FDP on **"Approaches for Quality Research Paper Writing in High Impact Journals"** organized by IQAC, Rajiv Gandhi University, Arunachal Pradesh from 2nd September 2020 to 6th September 2020.
8. Participated in a workshop on **"Artificial Intelligence and Deep Learning"** from 26th April, 2019 to 27th April, 2019 held at Assam University, Silchar conducted by leadingIndia.ai.
9. Participated in ATAL Academy Workshop on **"Artificial Intelligence, Robotics & Machine Learning"** from 22nd February, 2019 to 26th February, 2019 held at IIT, Guwahati.
10. Completed short term training programme on "**Networking Principle**" organized by National Institute of Technical Teachers' Training & Research, Kolkata from 2nd January 2017 to 6th January 2017.
11. Participated in "**ISI-ADBU Summer School on Soft Computing Paradigm and Machine Intelligence Techniques**" held on 7th-11th July, 2016 organized jointly by Machine Intelligence

Unit, ISI- Kolkata and Department of CSE & IT, Assam Don Bosco University.

12. Completed short term training programme on "**Matlab Application in Engineering**" organized by National Institute of Technical Teachers' Training & Research, Kolkata from 23$^{rd}$ May, 2016 to 27$^{th}$ May, 2016.

13. Participated in "**Workshop on Machine Learning 2012**" held on 17$^{th}$-19$^{th}$ October, 2012 organized by ACM Student Chapter, ISI-Kolkata.

14. Secured 3$^{rd}$ position in Coding in TechXETRA '09 held during 18$^{th}$ & 19$^{th}$ September, 2009 at Tezpur University.

- **Seminar(s)/Workshop(s)/Technical Festival Organized:**

1. Coordinator of the **Techno-Entrepreneurial Bootcamp and Ideathon** held on 21$^{st}$-23$^{rd}$ August, 2024 conducted in **Manipal University Jaipur**.

2. Coordinator of the workshop on "**Digital Marketing**" held on 13$^{th}$-14$^{th}$ October, 2017 conducted by IMMC, Kolkata in **Assam down town University**.

3. Coordinator of the workshop on "**Android Application Development**" held on 21$^{st}$-22$^{nd}$ October, 2016 conducted by SuccessMantra in Assam down town University.

4. Organizing Committee Member of the Seminar on "**Internet Security (ISEA)**" held on 21$^{st}$ February, 2015 conducted by C-DAC, Kolkata and sponsored by Dept. of Electronics & I.T, Govt. of India in Assam down town University, Guwahati.

5. Coordinator (Secretary) of the Event named "**Tothyaki**" held on November, 2015 conducted by Department of CSE, Assam down town University, Guwahati.

6. Coordinator of the workshop on "**Android Application Development**" held on 17$^{th}$-18$^{th}$ October, 2014 conducted by Nano Informatics in Assam down town University.

7. Event Coordinator of the workshop on "**Network Security**" held on 22$^{nd}$-23$^{rd}$ November, 2013 in Assam down town University.

8. Coordinator of the workshop on "**Android Application Development**" held on 10$^{th}$-11$^{th}$ March, 2012 in Assam University.

9. Event Coordinator of the workshop on "**Ethical Hacking**" held on 24$^{th}$-25$^{th}$ September, 2011 in Assam University.

10. **Co-Convenor** of "TechAura 2010" (Annual Technical Festival) held on 10$^{th}$ -13$^{th}$ November, 2010 in Nagaland University.

**DECLARATION**

I hereby declare that the information given above is true and correct.

**DATE: 17/12/24**                    **SIGNATURE:**    Deepjyoti Choudhury