

# BODHI CHAKRABORTY

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## EDUCATION

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### Doctor of Philosophy

*Aug 2014 - 18th May 2019*

Indian Institute of Information Technology - Allahabad,  
Allahabad, India.

*CGPA = 9.2*

*Specialization:* Differential Privacy

*Thesis Title:* A Differentially Private Information Theoretic Framework for Sensor Networks

*Advisor(s):* Prof. Shekhar Verma and Dr. Krishna Pratap Singh

### Master of Engineering

*2012 - May 2014*

Birla Institute of Technology - Mesra,  
Ranchi, India.

*CGPA = 9.04*

*Specialization:* Software Engineering

*Thesis Title:* Software Development Effort Estimation Using Fuzzy Bayesian Belief Network

*Advisor:* Dr. K. Sridhar Patnaik

### Bachelor of Technology

*2006 - 2010*

Department of Computer Science and Engineering,  
Siliguri Institute of Technology,  
Siliguri, India.

*CGPA = 8.76*

### Central Board of Secondary Education (12<sup>th</sup> Exam)

*2004 - 2006*

St. Joseph's School,  
NTPC Kahalgaon, Bhagalpur, Bihar, India.

*Stream:* Science.

*Percentage:* 77.8 %

### Indian Certificate of Secondary Education (10<sup>th</sup> Exam)

*2002 - 2004*

Holy Cross School,  
Agartala, Tripura, India.

*Stream:* Science.

*Percentage:* 84.4 %

## EMPLOYMENT

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- **Role:** Assistant Professor *Mar 2023 - Till Date*  
**College:** Adamas University, India.
- **Role:** Assistant Professor *Apr 2022 - Feb 2023*  
**College:** ITM University Gwalior, India.

- **Role:** Assistant Professor *Feb 2022 - Apr 2022*  
**College:** Brainware University Kolkata, India.
  
- **Role:** Assistant Professor *July 2019 - Dec 2019*  
**College:** MITS Gwalior, India.
  
- **Role:** Research(JRF & SRF) *Aug 2014 - May 2019*
- **Role:** ETL Developer *October 2010 - July 2012*  
**Company:** Mahindra Satyam, India.

## JOURNAL PUBLICATIONS

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- J7. Brijesh Kumar Chaurasia, **Bodhi Chakraborty**, Debanjan Sadhya, "Trust computation in VNs using blockchain.", *Wireless Networks* (2024). <https://doi.org/10.1007/s11276-024-03851-w>
- J6. Debanjan Sadhya, **Bodhi Chakraborty**, "Quantifying the Effects of Anonymization Techniques over Micro-databases", *IEEE Transactions on Emerging Topics in Computing*, 2022. [**SCI Impact Factor: 7.691** , **DOI: 10.1109/TETC.2022.3141754** ]
- J5. **Bodhi Chakraborty**, Shekhar Verma, Krishna Pratap Singh, "Temporal Differential Privacy in Wireless Sensor Networks", *Journal of Network and Computer Applications*, 2020. [**SCI Impact Factor: 6.281** , **DOI: <https://doi.org/10.1016/j.jnca.2020.102548>** ]
- J4. **Bodhi Chakraborty**, Shekhar Verma, Krishna Pratap Singh, "Differentially Private Location Privacy Preservation in Wireless Sensor Networks", *Wireless Personal Communications*, 2019. [**SCI Impact Factor: 1.671** , **DOI: 10.1007/s11277-018-6026-5** ]
- J3. **Bodhi Chakraborty**, Shekhar Verma, Krishna Pratap Singh, "Staircase Based Differential Privacy with Branching Mechanism for Location Privacy Preservation in Wireless Sensor Networks", *Computers & Security*, 2018. [**SCI Impact Factor: 4.438** , **DOI: <https://doi.org/10.1016/j.cose.2018.03.002>** ]
- J2. Debanjan Sadhya, Sanjay Kumar Singh, **Bodhi Chakraborty**, "Review of key-binding-based biometric data protection schemes", *IET Biometrics*, 2016. [**SCI Impact Factor: 2.588** , **DOI: 10.1049/iet-bmt.2015.0035** ]
- J1. **Bodhi Chakraborty**, K.S.Patnaik, "Software Development Effort Estimation using Fuzzy Bayesian Belief Network with COCOMO II", *International Journal of Software Engineering*, 2015.

## CONFERENCE PUBLICATIONS

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- C9. Baibhab Adhikari, Prabhat Das, **Bodhi Chakraborty**, "Comparative Analysis of Different Generative AI Models For Scholarly Articles on Blockchain Technology", ICDMAI.[Accepted]
- C8. Anant Vijay, Garima Roy, **Bodhi Chakraborty**, "Symbolic Music Generation using Natural Language Processing with Probabilistic and Deep Learning Approaches", ICDMAI.[Accepted]
- C7. Nitu Kumari, Sibashreeta Dash, Debanjan Sadhya, **Bodhi Chakraborty**, "Categorically Analyzing the Network Traffic in the Snowflake Bridge of Tor", COMSNET.[Accepted]
- C6. Nitin Kesari, Debanjan Sadhya, **Bodhi Chakraborty**, "Mitigating Packet-level Signature Attacks in PINGPONG via Differential Privacy", IEEE ANTS 2024.[Accepted]

- C5. P Guna Shekar, Raghwendra Singh, Debanjan Sadhya, **Bodhi Chakraborty**, “Distributed and Hash-Based Mixers for User Anonymity on Blockchain”, International Conference on Cryptology & Network Security with Machine Learning, India, 2022.
- C4. Akash Chaurasiya, Govind Garg, Rahul Gaud, **Bodhi Chakraborty**, Shashi Kant Gupta, “Recognition of Speech Emotion Using Machine Learning Techniques”, International Conference on Communication, Networks and Computing(CNC), India, 2022.
- C3. Debanjan Sadhya, **Bodhi Chakraborty**, “A Quantitative Study of Attribute-based Correlation in Micro-databases and its Effects on Privacy”, 24th Australasian Conference on Information Security and Privacy (ACISP), New Zealand, 2019.
- C2. **Bodhi Chakraborty**, Debanjan Sadhya, Shekhar Verma, Krishna Pratap Singh, “Information Theoretic Analysis of Privacy in a Multiple Query-Response Based Differentially Private Framework”, 1st International Conference on Communication, Networks and Computing (CNC), India, 2018.
- C1. Debanjan Sadhya, **Bodhi Chakraborty**, Sanjay Kumar Singh, “Capturing the Effects of Attribute Based Correlation on Privacy in Micro-databases”, 14th International Conference on Security and Cryptography (SECRYPT), Spain, 2017.

## BOOK CHAPTER

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- B1. Adhikari, B., Chatterjee, D., **Chakraborty, B.**, Parbat, G. & Gope, B, ”Applications of Computational Learning and IoT in Smart Road Transportation System.”, Book Series: Springer Tracts on Transportation and Traffic (SCOPUS INDEXED)[Accepted]

## SEMINARS/ WORKSHOPS ATTENDED

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- 2nd Workshop on Machine Learning and Data Analytics (MLDA), IIIT Allahabad, 2018.
- 1st International Conference on Communication, Networks and Computing (CNC), India, 2018.
- 14th IEEE India Council International Conference (INDICON), IIT Roorkee, 2017.
- Workshop on Machine Learning and Data Analytics (MLDA), IIIT Allahabad, 2017.
- GIAN course on Advancements in Privacy Preserving Data Mining, NIT Goa, India, 2016.
- IEEE UP Section Conference on Electrical, Computer and Electronics (UPCON), IIIT Allahabad, India, 2015.
- IEEE Computational Intelligence Workshop (CIW), IIIT Allahabad, India, 2014.

## PERSONAL DETAILS

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*Date of Birth* : 16-Feb-1989  
*Sex* : Female  
*Nationality* : Indian  
*Marital status* : Married  
*Permanent Add.* : 141, Arabinda Nagar,  
P.O. & Dt. - Jalpaiguri,  
West Bengal, India  
PIN-735101.

## REFEREES

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**Prof. Shekhar Verma**

Dept. of Information Technology,  
Indian Institute of Information Technology Allahabad,  
Allahabad, India.  
email: sverma@iiit.ac.in

**Dr. Krishna Pratap Singh**

Dept. of Information Technology,  
Indian Institute of Information Technology Allahabad,  
Allahabad, India.  
email: kpsingh@iiita.ac.in