

# Rupam Bhattacharyya

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<https://goo.gl/OQpCUV>(google scholar)

## Education

- 2015–2019 **Ph.D. (Computer Science and Engineering)**, Tezpur University (Ranked 146th amongst the BRICS nations), Assam, India.
- 2012–2014 **Master of Technology (M.Tech.) (Information Technology)**, Tezpur University, Assam, India.  
CGPA:9.53/10
- 2006–2010 **Bachelor of Engineering (B.E.)(CSE)**, Jorhat Engineering College, Govt. of Assam, India.  
Marks Obtained: 77.77 in Percentage

## Academic Achievement

1. Recipient of **meritorious scholarship by University of Stirling, Scotland, UK**, for attending International IEEE/EPSCRC Workshop on Autonomous Cognitive Robotics (COGROB-2014)
2. Recipient of **GATE Scholarship** during M.Tech course work.
3. Got **Williamson Magor scholarship** for four years while studying B.E. course.
4. Cleared the **CST-G level** conducted by **CDAC** (Centre for Development of Advanced Computing), Mumbai.

## Selected Publication

### Journal

- [1] **R Bhattacharyya**, and S. M. Hazarika. "A Knowledge-driven Layered Inverse Reinforcement Learning Approach for Recognizing Human Intents." *Journal of Experimental & Theoretical Artificial Intelligence* (2020), <https://doi.org/10.1080/0952813X.2020.1718773>.
- [2] **Bhattacharyya, Rupam**, and Shyamanta M. Hazarika. "Object affordance driven inverse reinforcement learning through conceptual abstraction and advice." *Paladyn, Journal of Behavioral Robotics* 9.1: 277-294, 2018

### Book Chapter

- [1] **Bhattacharyya, R.**, Bhuyan, Z. and Hazarika, S. M. (2016): O-PrO: An Ontology for Object Affordance Reasoning, In *Intelligent Human Computer Interaction*, Eds. Anupam Basu, Sukhendu Das, Patrick Horain, Samit Bhattacharya, Lecture Notes in Computer Science No. 10127, pp. 39-50. Springer-Verlag.

### Conferences

- [1] **Rupam Bhattacharyya** and Shyamanta M Hazarika, "Intent Recognition in a Generalized Framework for Collaboration", In *Proceedings of the International Conference on Intelligent Human Computer Interaction (IHCI)*, IIT-Allahabad, India, 14-16 December, 2015, Elsevier *Procedia Computer Science* 84, pp. 123-126

- [2] Saikia, A., and Khan, M. A., Pusph, S., Tauhidi, S. I., **Bhattacharyya, R.**, Hazarika, S. M. and Gan, J. Q. (2015): cBDI-based Collaborative Control for a Robotic Wheelchair 7th International Conference on Intelligent Human Computer Interaction (IHCI-2015): Procedia Computer Science 84, 127-131

#### Workshop

- [1] Adity Saikia, **Rupam Bhattacharyya**, Shyamanta M. Hazarika, "Towards a Cognitive Agent for Collaborative Control of an Intelligent Wheelchair", Published in the International IEEE/EPSCRC Workshop Abstract Proceedings on Autonomous Cognitive Robotics (COGROB2014), 27-28 March, 2014, University of Stirling, Scotland, UK

#### Informal Publication

- [1] **R. Bhattacharyya**, A. Saikia, and S. M. Hazarika, C3A: A cognitive collaborative control architecture for an intelligent wheelchair," arXiv preprint arXiv:1701.08761, 2017.

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### Research Interest

Primary Reinforcement Learning, Knowledge Representation and Artificial Intelligence  
Secondary Cognitive Robotics

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### Certification

**CDAC, Bangalore** I earned my Full time Post Graduate Diploma in Software Technology (FPGDST) from **CDAC Bangalore** in 2012.

**Coursera** I successfully completed a course on "Neural Networks for Machine Learning" taught by Geoffrey Hinton in the year 2017.

**Udemy** I completed a course on "Artificial Intelligence: Reinforcement Learning in Python" in the year 2019.

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### Employment Details

September, 2020- **Assistant Professor** in the Dept. of Computer Science and Engineering, Indian Institute of Information Technology, Bhagalpur (IIIT Bhagalpur), Bihar, India

July, 2017- **Visiting Faculty** in the Dept. of Computer Science and Engineering, Indian Institute of Information Technology, Bhagalpur (IIIT Bhagalpur), Bihar, India  
September, 2020

March, 2016- **Project Fellow** in the UGC-SAP (DRS-II) in the Dept. of Computer Science and Engineering, Tezpur University, Assam, India  
July, 2017

January, 2015- **Junior Research Fellow (Under Center of Excellence)** in the Dept. of Computer Science and Engineering, Tezpur University, Assam, India  
March, 2016

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### Positions of Responsibility

Reviewer **Reviewer** of Journal of Experimental & Theoretical Artificial Intelligence, Taylor & Francis.

Reviewer **Reviewer** of International Conference on Pattern Recognition and Machine Intelligence (**PReMI** [endorsed by IAPR]), 2019

## Teaching Activity at IIIT Bhagalpur

### Courses Taken

1. Computer Programming,
2. Data Structures
3. Artificial Intelligence
4. Machine Learning
5. Introduction to Deep Learning and
6. Compiler Design

### Lab Courses Taken

1. Computer Programming Lab,
2. Data Structures Lab
3. Machine Learning Lab and
4. Compiler Design Lab

## Laboratory Developed and Set-up at IIIT Bhagalpur

Computer Programming Laboratory I **established** this laboratory at IIIT Bhagalpur in the year 2018. This lab has played a pivotal role in carrying out various laboratory sessions.

## Administrative Position and Additional Responsibilities at IIIT Bhagalpur

Nodal Officer I served as the Nodal Officer of **Ek Bharat Shreshtha Bharat** (a Govt. of India initiative for promoting mutual understanding among citizens residing in different parts of India) programme for IIIT Bhagalpur during 2017-2019.

Warden Currently, I am serving as the Warden of **Boy's Hostel 4 & 5** since July 04, 2019.

Faculty In-charge I have been serving as the Faculty In-charge of **Computer Programming Laboratory**.

Co-coordinator I have been assigned the additional duty of co-coordinator of the **Academic Affairs**.

Faculty Advisor I am serving as a Faculty Advisor for **third year undergraduate students** of Computer Science and Engineering department.

Internal Judge I was one of the internal judge in the **Smart India Hackathon (SIH) 2020**.

Member I was one of the member in the Undergraduate (**U.G.**) admission committee in the year 2019.

## Declaration

I hereby declare that the above mentioned information is correct up to my knowledge and I bear responsibility for the correctness of the above mentioned particulars.