

Rajdeep Mukherjee

PH.D. RESEARCH SCHOLAR (INSTITUTE), CNeRG, DEPT. OF CSE, IIT KHARAGPUR

P-107/A, Unique Park, Behala, Kolkata - 700034, West Bengal, India

+91-9836205250 | rajdeep1989.iitkgp@gmail.com | [rajdeep345.github.io](https://github.com/rajdeep345) | [Rajdeep Mukherjee](#) | [rajdeep345](#) | [rajdeepMukherjee89/](#)

Summary

I am a fourth-year PhD Student at the Dept. of CSE, IIT Kharagpur advised by [Prof. Pawan Goyal](#) and [Prof. Sourangshu Bhattacharya](#). As part of the Complex Networks Research Group (CNeRG), I work on problems that lie at the intersection of Natural Language Processing, Information Retrieval, and Computational Social Science. I did my Masters from IIIT Delhi and Bachelors from Jadavpur University. Additionally, I have four years of professional experience with [PwC India](#) specializing in Data Warehousing, Data Modeling and Business Intelligence using Microsoft Technologies.

Education

Indian Institute of Technology (IIT), Kharagpur

Kharagpur, India

PHD IN COMPUTER SCIENCE AND ENGINEERING

Jan 2018 - Present

- Domain of Research - Natural Language Processing, Information Retrieval, Computational Social Science
- Supervisors: Prof. Pawan Goyal, Prof. Sourangshu Bhattacharya

Indraprastha Institute of Information Technology (IIIT) Delhi

Delhi, India

M.TECH IN COMPUTER SCIENCE AND ENGINEERING

Jul 2015 - Jul 2017

- CGPA: 9.11, Ranked 1st in Information Security Specialization (with thesis)
- Supervisor: [M.Tech Thesis](#)

Jadavpur University, Kolkata

Kolkata, India

B.E. IN INFORMATION TECHNOLOGY

Jul 2007 - Jun 2011

- CGPA: 8.59, University Gold Medalist, TCS Best Student Project awardee.
- Supervisor: [Prof. Samiran Chattopadhyay](#) | [Bachelors Thesis](#)

Kendriya Vidyalaya (ONGC) Chandkheda, Ahmedabad, Gujarat

Ahmedabad, India

ALL INDIA SENIOR SCHOOL CERTIFICATE EXAMINATION (AISSCE)

2007

- Percentage: 91.8 %

Kendriya Vidyalaya (ONGC) Chandkheda, Ahmedabad, Gujarat

Ahmedabad, India

ALL INDIA SECONDARY SCHOOL EXAMINATION (AISSE)

2005

- Percentage: 94.2 %
- Adjudged School Topper.

Work Experience

IBM Research Labs

Delhi, India

RESEARCH INTERN

May - Jul 2018

- Worked with [Dipyaman Banerjee](#) and [Kuntal Dey](#) towards the development of an efficient deep learning-based solution for identifying and recognizing sounds that do not contain a speech component.
- Participated in the **Bird Audio Detection** task as a part of [IEEE AASP DCASE2018 Challenge](#).
- Our team secured **7th rank worldwide** (1st in India) among all the participants. [Challenge Results](#)
- Our work was accepted as a **Poster** at DCASE2018 Workshop, held in Surrey, UK (November 2018).

Indian Institute of Technology Kharagpur

Kharagpur, India

SENIOR PROJECT OFFICER

Aug - Dec 2017

- Worked on Online Social Network Analysis as part of CNeRG.
- Explored areas like Opinion Dynamics, Rumor Detection, and Click-bait Detection.

PricewaterhouseCoopers (PwC) India

Kolkata, India

TECHNOLOGY CONSULTANT

Aug 2011 - Jul 2015

- Worked as a Business Intelligence (BI) developer and Data Modeler in the Advisory Line of Service (LOS).
- Led projects in data warehousing, data modeling and BI using Microsoft technologies like MSBI suite, Visual Studio, MS SQL Server 2012 etc.
- Held several positions of responsibility and was instrumental in managing client expectations and relationships.

IBM IRL, Bangalore

Kolkata, India

INTERN, IBM REMOTE MENTORING PROGRAM

Sep - Dec 2010

- Worked as an intern under the supervision of [Dr. Chiranjib Sur](#), (the then) Research Scientist, High Performance Computing Group

Publication

PASTE: A Tagging-Free Decoding Framework Using Pointer Networks for Aspect Sentiment Triplet Extraction

Rajdeep Mukherjee, Tapas Nayak, Yash Butala, Sourangshu Bhattacharya, Pawan Goyal

EMNLP 2021

Understanding the Role of Affect Dimensions in Detecting Emotions from Tweets: A Multi-task Approach

Rajdeep Mukherjee, Atharva Naik, Sriyash Poddar, Soham Dasgupta, Niloy Ganguly

[Paper](#) | [Blog](#) | [Poster](#) | [Slides](#) | [Code](#) | [Video](#) | [Citation](#)

SIGIR 2021

Reproducibility, Replicability and Beyond: Assessing Production Readiness of Aspect Based Sentiment Analysis in the Wild

Rajdeep Mukherjee, Shreyas Shetty, Subrata Chattopadhyay, Subhadeep Maji, Samik Datta, Pawan Goyal

[Paper](#) | [Slides](#) | [Code](#) | [Video](#) | [Citation](#)

ECIR 2021

Read what you need: Controllable Aspect-based Opinion Summarization of Tourist Reviews

Rajdeep Mukherjee, Hari Chandana Peruri, Uppada Vishnu, Pawan Goyal, Sourangshu Bhattacharya, Niloy Ganguly

[Paper](#) | [Slides](#) | [Code](#) | [Video](#) | [Citation](#)

SIGIR 2020

Addressing Forwarder's Dilemma: A Game-Theoretic Approach to Induce Cooperation in a Multi-hop Wireless Network

Saswati Mukherjee, Sreya Dey, **Rajdeep Mukherjee**, Matangini Chattopadhyay, Samiran Chattopadhyay, Debarshi Kumar Sanyal

[Paper](#) | [Citation](#)

THIRD INTERNATIONAL CONFERENCE ON ADVANCES IN COMMUNICATION, NETWORK, AND COMPUTING, CNC 2012

Teaching Assistance

Autumn '21	CS60092: Information Retrieval , Instructor: Prof. Saptarshi Ghosh	IIT Kharagpur
Autumn '21	noc21-cs102: Natural Language Processing , Instructor: Prof. Pawan Goyal	NPTEL
Spring '21	CS60075: Natural Language Processing , Instructor: Prof. Pawan Goyal	IIT Kharagpur
Autumn '20	CS60083: Parameterized Algorithms , Instructors: Prof. Palash Dey, Prof. Sudeshna Kolay	IIT Kharagpur
Spring '20	CS60092: Information Retrieval , Instructors: Prof. Pawan Goyal, Prof. Saptarshi Ghosh	IIT Kharagpur
Autumn '19	CS29003: Algorithms-1 Lab , Instructors: Prof. Pawan Goyal, Prof. Animesh Mukherjee	IIT Kharagpur
Autumn '19	noc19-cs56: Natural Language Processing , Instructor: Prof. Pawan Goyal	NPTEL
Spring '19	Programming and Data Structures Lab , Instructor: Prof. Rogers Mathew	IIT Kharagpur
Autumn '18	Programming and Data Structures Lab , Instructors: Prof. Rogers Mathew, Prof. Sudebkumar Prasant Pal	IIT Kharagpur
Spring '17	CSE352/CSE552: Security Engineering , Instructor: Prof. Sambuddho Chakravarty	IIIT Delhi

Scholarships & Travel Grants

2021	SIGIR Student Travel Grant , awarded for registering the paper and attending the conference (virtually).	SIGIR 2021
2020	SIGIR Student Travel Grant , awarded for registering the paper and attending the conference (virtually).	SIGIR 2020

Honors & Awards

2013	PwC Experience Award , awarded twice for demonstrating PwC Core values and behaviors.	Kolkata, India
2012	PwC Above and Beyond Award , awarded by Sudipto Ghosh, Partner, PwC.	Kolkata, India
2011	TCS Best Student Project Award and University Gold Medal , jointly awarded by Tata Consultancy Services and Jadavpur University.	Kolkata, India
2010	2nd place, IBM Technical Quiz , INSTRUO 2010 held at IEST, Shibpur in the Technology Area on Green IT.	Kolkata, India
2005	2nd place, AISSE, KVS Ahmedabad Region , selected for CSIR Program on Youth for Leadership in Science.	Ahmedabad, India

Extracurricular Activities

2021	Judge , Open IIT: Eastern Vocal Competition	<i>Kharagpur, India</i>
2018	Permanent Membership , Eastern Technology Music Society (ETMS), IIT Kharagpur.	<i>Kharagpur, India</i>
2015	Permanent Membership , AudioBytes, Music Club, IIIT Delhi.	<i>Delhi, India</i>
2013	Silvers Plate Runners Up , Merchants' Cup Badminton Tournament.	<i>Kolkata, India</i>
2011	Multiple awards , National / State level Singing Competitions.	<i>Kolkata, India</i>
2010	Member, Organizing Committee , SRIJAN 2010, Annual Technical Fest, Jadavpur University.	<i>Kolkata, India</i>

References

Dr. Niloy Ganguly

Professor, Department of Computer Science and Engineering, IIT Kharagpur

NILOY@CSE.IITKGP.AC.IN

Dr. Pawan Goyal

Associate Professor, Department of Computer Science and Engineering, IIT Kharagpur

PAWANG@CSE.IITKGP.AC.IN

Dr. Sambuddho Chakravarty

Assistant Professor, Department of Computer Science and Engineering, IIIT Delhi

SAMBUDH@IIITD.AC.IN