

Rajdeep Mukherjee

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

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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

MTLTS: A Multi-Task Framework To Obtain Trustworthy Summaries From Crisis-Related Microblogs

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

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

WSDM 2022

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

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

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

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](#) | [Code](#) | [Blog](#) | [Poster](#) | [Slides](#) | [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](#) | [Code](#) | [Slides](#) | [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](#) | [Code](#) | [Slides](#) | [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

Reviewer/Sub-Reviewer

Conference

SIGIR'22, NAACL'22, ACL'22, NEURIPS'21, SIGIR'21, SDM'21, CODS-COMAD'21, EMNLP'20, SIGIR'20, LREC'20, EMNLP'19, CODS-COMAD'19

Journal

IJDRR'21, TWEB'20, TCSS'20

Teaching Assistance

Spring '22	CS60075: Natural Language Processing , Instructor: Prof. Pawan Goyal	IIT Kharagpur
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

2022	Microsoft Research Travel Grant , awarded for attending WSDM 2022.	<i>Microsoft Research</i>
2022	ACM-India and IARCS Travel Grant , awarded for attending WSDM 2022.	<i>ACM-India IARCS</i>
2022	SIGIR Student Travel Grant , awarded for registering the paper.	<i>WSDM 2022</i>
2021	SIGIR Student Travel Grant , awarded for registering the paper and attending the conference (virtually).	<i>SIGIR 2021</i>
2020	SIGIR Student Travel Grant , awarded for registering the paper and attending the conference (virtually).	<i>SIGIR 2020</i>

Honors & Awards

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

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, IIT 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

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Dr. Pawan Goyal

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

PAWANG@CSE.IITKGP.AC.IN

Dr. Sourangshu Bhattacharya

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

SOURANGSHU@CSE.IITKGP.AC.IN