

## Hello

### I'm Riya Samanta

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## Research Interest

Opportunistic Networking, VGI, Crowdsourcing, and Spatial Informatics. Currently, I am working on the optimal job allocation problem for crowdsourcing platforms.

## Education

January 2020 - Present

**Indian Institute of Technology, Kharagpur, India**– *Ph.D in Computer Science and Engineering*

- Supervisor:

**Dr. Soumya Kanti ghosh, IIT Kharagpur, India**

- Joint Supervisor:

**Dr. Sajal K. Das, Missouri University of Science and Technology, Missouri, USA**

July 2017 - July 2019

**University of Calcutta, Kolkata, India** – *Master of Technology (CSE)*

- **CGPA: 9.6 out of 10**
- **Acquired First Position in the batch (Gold Medal)**

July 2014 - June 2017

**University of Calcutta, Kolkata, India** – *Bachelor of Technology(CSE)*

- **CGPA: 8.5 out of 10**
- **Acquired Second Position in the batch (Silver Medal)**

I attended 3- years Post-Graduation B.Tech in Computer Science and Engineering.

July 2011 - June 2014

**St. Xavier's College, Kolkata, India**– *B.Sc in Computer Science*

- **Percentage: 76% with Honours**

## Academic Achievements

- Junior Research Fellowship as a Research Scholar at IIT, Kharagpur
- Awarded DST Inspire Fellowship 2020 for JRF
- Qualified UGC NET JRF 2018 with 99.88 percentile
- Acquired First Position in the M.Tech batch (**Gold Medalist**)
- Acquired Second Position in the B.Tech batch (**Silver Medalist**)
- 2<sup>nd</sup> Runners-up Project Award in ACM B.Tech Project Contest 2017
- Participation and Clearing of Level 1 as Team CoderAssassin in Codevita-2016
- Qualified GATE ENTRANCE for MTech-2017
- Qualified JECA-2014
- Secured 91% in Council for the Indian School Certificate Examination(ISC), 2011
- Secured 89 % in Indian Certificate of Secondary Examination(ICSE), 2009.

## Academic Projects

- **Enhanced PROPHET+ routing: an efficient reliable routing protocol for Opportunistic Network, M.Tech Thesis**  
Duration-1 year  
Calcutta University
- **Node Localization for Indoor Tracking using Artificial Neural Network for Wireless Sensor Network, B.tech Project**  
Duration-1 year  
Calcutta University  
Publication DOI: <https://doi.org/10.1109/FMEC.2018.8364071>
- **GeoSpatial Chair Awards**  
Duration- 6 months  
IIT Kharagpur

## Research Publication

1. **R. Samanta**, C. Kumari, N. Deb, S. Bose, A. Cortesi and N. Chaki, "Node localization for indoor tracking using artificial neural network," 2018 Third International Conference on Fog and Mobile Edge Computing (FMEC), 2018, pp. 229-233, doi: 10.1109/FMEC.2018.8364071.
2. **R. Samanta**, S. K. Ghosh and S. K. Das, "SWill-TAC: Skill-oriented Dynamic Task Allocation with Willingness for Complex Job in Crowdsourcing," 2021 IEEE Global Communications Conference (GLOBECOM), 2021, pp. 1-6, doi: 10.1109/GLOBECOM46510.2021.9685885.

3. **R. Samanta** and S.K. Ghosh, "FogiRecruiter: A fog-enabled selection mechanism of crowdsourcing for disaster management". *Concurrency Computat Pract Exper.* 2022;e7207. doi:[10.1002/cpe.7207](https://doi.org/10.1002/cpe.7207) [Article]
4. **R. Samanta**, S. K. Ghosh and S. K. Das, "Volunteer Selection in Collaborative Crowdsourcing with Adaptive Common Working Time Slots," 2022 IEEE Global Communications Conference (GLOBECOM), [Accepted]

## Workshops/Conferences Attended

- Participated in CODS-COMAD 2018.
- Volunteered in ACSS 2019.
- Workshop on Ethical Hacking, Robothon-2016 at IIT-Delhi
- Paper titled "SWill-TAC: Skill-based Dynamic Task Allocation with Willingness for Complex Job in Crowdsourcing" accepted in Social Network track of IEEE GLOBECOM 2021 conference.

## Course Works in Ph.D

- Algorithm Design and Analysis, 4 credits
- Machine Learning, 3 credits
- Cloud computing, 3 credits
- English for Technical Writing, 4 credits

## Course Works in Post graduation (M.Tech (Computer Science and Engineering))

- Major in Computer Science and Engg
- Electives : (1)Network Security,(2) Real-Time System,(3) A.I, (4) Image Processing
- Other compulsory courses: (1) Advanced DBMS, (2) Wireless and Mobile Computing,(3) Probability and Statistics, (4) Algorithms

## Teaching Experiences in

### TA-ship during Ph.D

- **Database Management System (Spring 2020)**

BTech Curriculum

Instructor(s): Prof. Soumya Kanti Ghosh and Prof. Samik Sural  
Department of Computer Science & Engineering,  
IIT, Kharagpur

- **Geographical Information System (Autumn 2021)**

MTech Curriculum

Instructor(s): Prof. Soumya Kanti Ghosh

Department of Computer Science & Engineering,  
IIT, Kharagpur

- **Database Management System (Spring 2022)**

BTech Curriculum

Instructor(s): Prof. Soumya Kanti Ghosh and Prof. Samik Sural

Department of Computer Science & Engineering,  
IIT, Kharagpur

- **Geographical Information System (Autumn 2022)**

MTech Curriculum

Instructor(s): Prof. Soumya Kanti Ghosh

Department of Computer Science & Engineering,  
IIT, Kharagpur

#### TA-ship for NPTEL

- **Computer Networks and Internet Protocol (Spring 2022)**

BTech/MTech Curriculum

Instructor(s): Prof. Soumya Kanti Ghosh and Prof. Sandip Chakraborty

Department of Computer Science & Engineering,  
IIT, Kharagpur

- **Cloud Computing (Autumn 2022)**

MTech Curriculum

Instructor(s): Prof. Soumya Kanti Ghosh

Department of Computer Science & Engineering,  
IIT, Kharagpur

#### TA-ship during M.Tech

- **Compiler Design ( to BTech candidates )**

Instructor(s): Prof. Banani Saha

Department of Computer Science & Engineering,

Calcutta University, Kolkata

- **Operating System (to MSc candidates )**  
Instructor(s): Prof. Banani Saha  
Department of Computer Science & Engineering,  
Calcutta University, Kolkata
- **Object-Oriented Programming with Java (to B.Tech candidates )**  
Instructor(s): Prof. Banani Saha  
Department of Computer Science & Engineering,  
Calcutta University, Kolkata

## Computer Skills

### Languages

- Python, C, Java,
- MySQL, Javascript, HTML

### Tools/Frameworks

- NODE JS
- ONE simulator
- QGIS

## Positions Of Responsibility

- Class Representative for 3 years in B.Tech
- Assistant General Secretary of Student Union of Calcutta University, India (Tech Campus) during entire BTech and MTech (5 years)
- Volunteered in teaching rural and mentally disabled children under NSS, St.Xavier's college.

## Hobbies

- Dancing, both classical and Western. Trained in Bharatnatyam
- Taking care and spending time with nature.
- Travelling and journaling
- Listening to music and mantras

## Personal Information

- Nationality: Indian

- Ethnicity: Bengali
- Gender: Female