



Name : DR. KABERI SAMANTA

Husbands Name : DR. BIMALESH SAMANTA

Date of Birth & Place of Birth : 18th May 1976, Kolkata

Permanent Address : 232 Ramkrishna nagar, Chittanil II, Third Floor, Garia, Kolkata – 700153, West Bengal

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Nationality : Indian

Religion : Hindu

1. Education:

- PhD in Science on “An Assessment of Landuse Change Dynamics of Indian Sundarbans using RS & GIS” at School of Oceanographic Studies, Jadavpur University, India (2014)
- P.G. Diploma in Remote Sensing & GIS on Urban & Regional Planning, Indian Institute of Remote Sensing (IIRS), DOS, Govt of India (2002)
- MSc. In Geography (Specialized in Remote Sensing & GIS) from Banaras Hindu University, Varanasi, Uttar Pradesh India, (2000)

2. Employment record:

Period	Employing organization and your title/position. Contact information for references	Country	Summary of activities performed relevant to the Assignment
27 th Feb 2024 till date	Employer: Calcutta Institute of Engineering and Management Title / Position Held: Assistant Prof. in Env Sci (Civil Engi Dept) And Research & Development Officer, Acharya Jagadish Chandra Bose Centre for Incubation and Research	Kolkata, West Bengal, India	• Project Supervision, Teaching Remote Sensing & GIS, Innovation Activities initiated, Project Formulation for National & International funding • Coordinator of Edusat Programme, IIRS, Dehradun from the college (one of the nodal centre) • Model workshop in Science organized for School students in West Bengal
March 2024 till date	Employer: Dept of Architecture, Jadavpur University, Kolkata - 700032 Title / Position Held: Consultant	Kolkata, West Bengal, India	• Preparation of GIS based maps based on CAD drawings of Bakreswar Development Authority (BKDA) given by, 2024
March 2024 till date	Employer: Dept of Architecture, Jadavpur University, Kolkata - 700032 Title / Position Held: Consultant	Kolkata, West Bengal, India	• Preparation of GIS based maps based on CAD drawings of New town Development Authority (NKDA) given by Dept of Architecture, Jadavpur University, 2024

15 th July 2021 – 26 th Feb 2024	Employer: Centre for Atmospheric Sciences, IIT Delhi, Hauz Khas, New Delhi – 110016 Title / Position Held: Project Scientist in “Seamless Environmental Management System for West Bengal Project “ Reference: Prof. Sagnik Dey Centre for Atmospheric Sciences Indian Institute of Technology Delhi Hauz Khas, New Delhi - 110016, +91-9873544872 (Cell/Whatsapp) +91-11-26591315 (Office) Email: <sagnik@cas.iitd.ac.in >	Kolkata, West Bengal, India	• Seamless Environmental Management System for West Bengal • Air quality monitoring, data analysis and mapping • Daily Tracking of Biomass Burning in West Bengal • Identification of Sand Mining Sites Along the River Ajay & Damodar, West Bengal • Detailed canal mapping of Nagerganj canal, Bally Khal, Khardah Khal
1 st July 2020 – 14 th July 2021	Employer: Centre for Atmospheric Sciences, IIT Delhi, Hauz Khas, New Delhi – 110016 Title / Position Held: Remote Sensing & GIS expert Reference: Prof. Sagnik Dey Centre for Atmospheric Sciences Indian Institute of Technology Delhi Hauz Khas, New Delhi - 110016, +91-9873544872 (Cell/Whatsapp) +91-11-26591315 (Office) Email: <sagnik@cas.iitd.ac.in >	Kolkata, West Bengal, India	• 'GIS-based information system for air quality management in West Bengal' • Remote Sensing & GIS application of Waterbody Mapping of Greater Kolkata Region • LST data analysis for Vegetation, Soil & Water
From 1 st April 2002 – 24 th June 2020	Employer: School of Oceanographic Studies, Jadavpur University, Kolkata- 700032. Title / Position Held: Junior Research Fellow (1st April 2002 – 30th April 2004) Guest Faculty & Project Assistant (1st Aug 2004 – 11th Jan 2009) Teaching Assistant (2009 – 2019) Assistant Professor (Contractual) – (2019 – 2020) Reference: (For Last 22 Years) Prof. Sugata Hazra, Forner Director, School of Oceanographic Studies, Jadavpur University, Kolkata- 700032 Tel: 9830200692 Email: sugata_hazra@yahoo.com	Kolkata, West Bengal, India	• Conducting P.G. Diploma course in Remote Sensing & GIS and taking classes • Taking classes as Research & Teaching Assistant on Remote Sensing & Geographical Information System • Conducting Training Programmes (at least 4 programmes) Conducted at School of Oceanographic Studies, Jadavpur University for the Forest Officials, Dept of Forest, Govt of West Bengal for capacity building in using Remote Sensing & GIS based softwares and GPS (June 2015 – January 2017) • Impacts of Climate Change in Sundarban Area of West Bengal, India (2013 – 2014) • GIS based Municipal Information System on Baranagar Municipality Wards 28,32, & 33, May 2010 • Studies on Geological control on Fluoride Occurrence in Ground water in Birbhum, West Bengal, 2010 • Temporal Change Detection (2001 – 2008) Study of Sundarban, March 2010, funded by WWF, India • Water Quality Mapping of Jharkhand State of selected districts using Remote Sensing and GIS techniques. (May 2006 – Octo 2006) • Remote Sensing & GIS map preparation for Integrated Coastal Zone Management Plan of Digha – Shankarpur Area, 2005 – 2006. • Preparation of various Landuse maps and GIS Analysis in a Project “Trade, Environment and Rural Poverty, A

			Case of Indian Sundarbans, West Bengal funded by Institute of Economic Growth, University of Delhi, New Delhi. (Jan 2005 – August 2005)
From Feb 2016 - Dec 2019	Employer: Geography Department Jadavpur University Kolkata - 700032 Title / Position Held: Guest faculty	Kolkata, West Bengal, India	Taught Physical Geography, Human Geography, Agricultural Geography, Economic Geography, GPS & GNSS practicals etc in the B.Sc (Hons)
2015 - 2017	Employer: Geography Department, Nagindas Khandwala College of Commerce, Arts & Management Studies, Mumbai Title / Position Held: Remote Sensing & GIS expert	Kolkata, West Bengal, India	Remote Sensing & GIS works for a Major Project “Sustainable Development and its socio-economic Implication: The Case study of Duars of West Bengal sponsored by ICSSR
January 2013 – March 2015	Employer: Department of Zoology, University of Calcutta Title / Position Held: Remote Sensing & GIS expert	Kolkata, West Bengal, India	- Enhancing the relationship between people and pollinator in Easter India funded by Darwin Initiative, UK - Faunivory and seed dispersal along habitat gradient in a moist deciduous forest of India funded by UGC (major project) - Data analysis, mapping and various statistical analysis like Fragstats etc
April 2014 – July 2014	Employer: Mechanical Engineering Dept, Jadavpur University Title / Position Held: Research Team	Kolkata, West Bengal, India	GIS based maps related to Solid Waste Generation of a few municipalities in West Bengal for a UKEIRI project titled “Waste to Energy – Decision Support System For Planning & Implementation in India
From 1st May, 2004 to 31 st July, 2004	Employer: Centre for Human Settlement, Deptt. of Architecture Jadavpur University Title / Position Held: Project Fellow Reference: Prof. Suchandra Bardhan, Dept of Architecture, Jadavpur University, Kolkata – 700032, Tel: 9830024841 Email: suchandrab@gmail.com	Kolkata, West Bengal, India	- Worked in AICTE project “Eco-Development of Fragile Coastal Eco System: A Case Study of the Sundarbans, West Bengal” - Data analysis, mapping and report compilation

Works undertaken that Best Illustrates Capability to Handle the Assigned Tasks	
Name of Assignment	Seamless Environmental Management System for West Bengal Project
Country	India
Period	1 st July 2020 – 26 th Feb 2024
Client	West Bengal Pollution Control Board, Govt of West Bengal
Funding Source	World Bank
Type of Service	Remote Sensing and GIS expert
Position	Project Scientist
Description of work/Assignment	- Seamless Environmental Management System for West Bengal - Air quality monitoring, data analysis and mapping - Daily Tracking of Biomass Burning in West Bengal - Identification of Sand Mining Sites Along the River Ajay & Damodar, West Bengal - Detailed canal mapping of Nagerganj canal, Bally Khal, Khardah Khal GIS-based information system for air quality management in West Bengal - Remote Sensing & GIS application of Waterbody Mapping of Greater Kolkata Region - LST data analysis for Vegetation, Soil & Water - Monitoring and evaluation of the final reports with maps and diagram Monitoring helped in continuous assessment of project activities, outputs, and outcomes to track progress and identify any issues or challenges early on. It typically involved regular data collection, reporting, and analysis to ensure that the project stays on track in terms of time, cost, and scope. On the other hand, evaluation was the more comprehensive assessment conducted at specific points in the project's life cycle, such as mid-term or at the end. It assessed the

	project's impact, relevance, sustainability, and the extent to which it has achieved its objectives. Together, M&E helps ensure accountability, informs decision-making, and allows for adjustments to be made during the project to enhance its success and long-term benefits. By integrating M&E into project planning, organizations can improve performance, maximize resource use, and ensure that the project's goals are met efficiently
Name of Assignment	Landbase preparation of Pipli and Nimapada sections, Orissa using high resolution data
Country	India
Period	2021
Client	Last Peak Data Private Ltd
Funding Source	Govt
Type of Service	Remote Sensing and GIS expert
Position	GIS Expert
Description of work/Assignment	- Conducted geo-referencing and data preparation for high-resolution imagery. - Digitized and created spatial layers for landbase mapping. - Monitored and evaluated the accuracy of spatial data. - Utilized remote sensing techniques for data collection and analysis. - Created detailed maps and visual representations of landbase information. - Coordinated with stakeholders to ensure data quality and project objectives were met. - Provided technical support and training on GIS software and tools to team members. - Implemented quality control measures to ensure the integrity and accuracy of spatial data.
Name of Assignment	Landuse / Landcover map preparation, including the detailed drawing of Kharagpur, West Bengal
Country	India
Period	2016
Client	Fugro Geotech (India) Pvt Ltd
Funding Source	not known
Type of Service	Remote Sensing and GIS expert
Position	GIS expert
Description of work/Assignment	- Conducted geo-referencing and data preparation for high-resolution imagery. - Digitized and created spatial layers for landbase mapping. - Monitored and evaluated the accuracy of spatial data. - Utilized remote sensing techniques for data collection and analysis. - Created detailed maps and visual representations of landbase information. - Coordinated with stakeholders to ensure data quality and project objectives were met. - Provided technical support and training on GIS software and tools to team members. - Implemented quality control measures to ensure the integrity and accuracy of spatial data.
Name of Assignment	Digitization of Mineral belt mapping (47 sheets of 28 Mineral belt maps)
Country	Country: India
Period	2016
Client	Geological Survey of India, 2016
Funding Source	Geological Survey of India
Type of Service	Type of Service: Supervision (M&E)
Position	M&E expert
Description of work/Assignment	- Conducted geo-referencing and data preparation for high-resolution imagery. - Digitized and created spatial layers for landbase mapping. - Monitored and evaluated the accuracy of spatial data. - Utilized remote sensing techniques for data collection and analysis. - Created detailed maps and visual representations of landbase information. - Coordinated with stakeholders to ensure data quality and project objectives were met. - Provided technical support and training on GIS software and tools to team members. - Implemented quality control measures to ensure the integrity and accuracy of spatial data.
Name of Assignment	Training and capacity building of the forest officials of Dept of Forest, Govt of West Bengal
Country	India
Period	June 2015 – January 2017
Client	Dept of Forest, Govt of West Bengal
Funding Source	JICA
Type of Service	Remote Sensing and GIS expert
Position	Remote sensing expert
Description of work/Assignment	Conducting Training Programmes (at least 4 programmes) Conducted at School of Oceanographic Studies, Jadavpur University for the Forest Officials, Dept of Forest, Govt of West Bengal for capacity building in using Remote Sensing & GIS based softwares and GPS.
Name of Assignment	Landbase preparation of Mapusa town, GOA using high resolution data

Country	India
Period	2015
Client	Last Peak Data Private Ltd
Funding Source	not known
Type of Service	Remote Sensing and GIS expert
Position	GIS Expert
Description of work/Assignment	- Conducted geo-referencing and data preparation for high-resolution imagery. - Digitized and created spatial layers for landbase mapping. - Monitored and evaluated the accuracy of spatial data. - Utilized remote sensing techniques for data collection and analysis. - Created detailed maps and visual representations of landbase information. - Coordinated with stakeholders to ensure data quality and project objectives were met. - Provided technical support and training on GIS software and tools to team members. ☐ Implemented quality control measures to ensure the integrity and accuracy of spatial data
Name of Assignment	“Waste to Energy – Decision Support System For Planning & Implementation in India
Country	India
Period	April 2014 – July 2014
Client	UKEIRI
Funding Source	UKEIRI
Type of Service	Remote Sensing expert
Position	Consultant
Description of work/Assignment	- Conducted solid waste management for some of the municipalities of West Bengal using Remote Sensing & GIS. - Utilized remote sensing techniques to collect and analyze data related to waste management. - Developed a decision support system for planning and implementing waste-to-energy projects. - Collaborated with municipal authorities to assess and improve waste management practices. - Provided technical support and recommendations for effective solid waste management.
Name of Assignment	Enhancing the relationship between people and pollinator in Eastern India funded by Darwin Initiative, UK
Country	India
Period	January 2013 – March 2015
Client	Darwin Initiative, UK
Funding Source	Darwin Initiative, UK
Type of Service	Remote Sensing expert
Position	Consultant
Description of work/Assignment	Remote Sensing Data Analysis and mapping and also report preparation and evaluation of the statistical data and interpretation, Data analysis, mapping and various statistical analysis like Fragstats etc
Name of Assignment	Vulnerability Assessment in a climate change scenario: A Pilot study on Ecologically Sensitive Sundarban Island System , West Bengal, Funded by UNDP
Country	India
Period	April 2002 – March 2004
Client	MOEF, Govt of India
Funding Source	UNDP
Type of Service	Research Fellow
Position	Junior Research Fellow
Description of work/Assignment	Remote Sensing Data Analysis and mapping and also report preparation

3. Papers Presented

- Presented a paper in ISRS Seminar – 12th and 13th March, 2003 Kolkata Chapter on Landuse/Landcover changes in Jharkhali Island Sundarbans, West Bengal by **Kaberi Samanta** & Sugata Ha2zra, School of Oceanographic Studies, Jadavpur University Kolkata-700 032
- Presented a paper in a National Seminar organized by CIFRI, ICAR & SAFE - on 1st & 2nd of March, 2014, at CIFRI, Barrackpore, Kolkata on Land Conversion Scenarios of East Kolkata Wetland – a Geo- informatics Appraisal by **Kaberi Samanta**, Anirban Mukhopadhyay, Anirban Akhand, Parimal Mondal, Sugata Hazra, School of Oceanographic Studies Jadavpur University & Society for Environmental and Geospatial Solution

- Presented a paper in a National Seminar on Remote Sensing – 22nd March – 24th March 2014, organized jointly by Dept. of Science & Technology, Govt of West Bengal and School of Oceanographic Studies, Jadavpur University
- Delivered a speech in a State level workshop as an Invited Speaker – 16th February 2018, organized by the Dept. of Geography, Haringhata Mahavidyalaya, P.O Subarnapur, Nadia, West Bengal – 741249 on “Redefining Geographical Knowledge with the help of Remote Sensing and GIS: Recent Trends and Future Prospects.

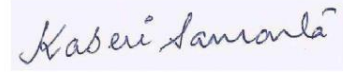
4. Published Work

- “A Preparatory Assessment of Vulnerability of the Ecologically Sensitive Sundarban Island System, West Bengal, in the perspective of climate change” by Sugata Hazra, **Kaberi Samanta**, Rajashree Dasgupta and Gautam Sen, published in the Proceedings of the Workshop on Vulnerability Assessment and Adaptation due to Climate Change on Indian Water Resources, Coastal Zones and Human Health – Natcom India, 27 – 28 June, 2003 in IIT, Delhi – Ministry of Environment and Forests, Govt. of India.
- “Landuse / Landcover change study of Jharkhali Island Sundarbans, West Bengal using Remote Sensing and GIS”, **Kaberi Samanta**, Sugata Hazra, School of Oceanographic Studies, Jadavpur University, Jadavpur, Raja S.C. Mallick Road, Kolkata – 700032, West Bengal, Indian International Journal of Geomatics and Geosciences, Volume 3, No 2, 2012.
- “Vulnerability Assessment of Soil Loss using USLI in Darjeeling District, West Bengal – A Geoinformatic Appraisal”, Sumana Mukherjee, Dr. Anirban Mukhopadhyay, Subhajit Ghosh, Chandrani Bhandari, Parimal Mondal, **Kaberi Samanta**, Dr. Tuhin Ghosh, published in Disaster Response & Management Centre for Disaster Management, LBSNAA, Mussoorie, June 2014, Vol 2, Number 1, ISSN: 2347-2553.
- “Hydrodynamic changes of river course of part of Bhagirathi – Hugli in Nadia district - A Geoinformatics appraisal”, Sandipta Das, Kathika Adak, **Kaberi Samanta**, School of Oceanographic Studies, International Journal of Geomatics and Geosciences, Vol No. 5, No. 2, 2014.
- “Site Suitability Analyses using Remote Sensing and GIS For solid waste disposal ground within Rajarhat Gopalpur Municipal Area, Kolkata, West Bengal”, Jaya Pradhan, **Kaberi Samanta**, School of Oceanographic Studies, International Journal of Geomatics and Geosciences, Vol No. 5, No. 4, 2015.
- “Urban sprawl and urban growth detection analysis: A comparative study of Kolkata municipal corporation and Haora municipal corporation”, Tusi Das, Sarbari Chakraborty, **Kaberi Samanta**, School of Oceanographic Studies, Jadavpur University, Jadavpur, Raja S.C. Mallick Road, Kolkata – 700032, West Bengal, India in International Journal of Geomatics and Geosciences, Vol No. 7, No. 1, 2016
- “Mangrove Forest Cover Changes in Indian Sundarbans (1986 – 2012) Using Remote Sensing and GIS” **Kaberi Samanta** and Sugata Hazra, School of Oceanographic Studies, Book Chapter of Environment and Earth Observation, Case Studies in India, Springer International Publishing Switzerland 2017.
- “Monitoring and Prediction of Dynamics in Sundarban Forest using CA- Markov Chain Model” Sarmistha Halder, **Kaberi Samanta**, and Sandipan Das, Book Chapter of Spatial Modeling in Forest Resources Management Rural Livelihood and Sustainable Development Springer International Publishing Switzerland 2020.
ISSN 1863-5520 ISSN 1863-5539 (electronic)
Environmental Science and Engineering
ISBN 978-3-030-56541-1 ISBN 978-3-030-56542-8 (eBook)
<https://doi.org/10.1007/978-3-030-56542-8>

- Monitoring the inter-decade spatial- temporal dynamics of the Sundarban mangrove forest of India from 1990 – 2019 Sarmistha Halder, **Kaberi Samanta**, Sandipan Das and Darshana Pathak, Regional Studies in Marine Sciences, Elsevier 2021.

Date: .08.02.2025

Place: Kolkata

A handwritten signature in blue ink that reads "Kaberi Samanta". The signature is written in a cursive style with a horizontal line above the text.

(DR. KABERI SAMANTA)

KAZI HIFAJAT

Remote Sensing and GIS analyst, Python Data analyst



My Profile

Skilled GIS Analyst and Data Science professional with expertise in geospatial analysis, machine learning, and data visualization using Python, SQL, and ArcGIS, focused on solving complex problems and supporting data-driven decisions.

Contacts

+91 7908417464
kazihifajat92@gmail.com
Kolkata, India
1992-04-16
Indian
[Linkedin Link](#)

Languages

- English
- Bengali
- Hindi

Technical Skills

- GIS Tools: ArcGIS, QGIS, Google Earth Engine
- Database Management: SQL, PostgreSQL/PostGIS, Spatial Databases
- Programming Languages: Python
- Machine Learning: Scikit-learn, TensorFlow
- Version Control: Git/GitHub
- Web Mapping (Leaflet), Geostatistics

Soft Skills

- Creativity in Data Visualization
- Analytical Thinking and Problem-Solving

Work Experience

PROJECT SCIENTIST (ONE YEAR)

Centre for Atmospheric Sciences, Indian Institute Of Technology, Delhi 2023-08 : 2024-10

1. Predicted Air Pollution (Particulate Matter) Levels Using A Random Forest Regressor (Python: Scikit-Learn). 2. Monitored Biomass Burning And Identified Regional Hotspots Using High-Resolution Satellite Imagery (NASA Firms Data, ArcGIS, Looker Studio). 3. Performed Spatial And Temporal Analysis Of Air Quality Trends Over Time (ArcGIS, Python, Time-Series Analysis, Sensor Data- Using API). 4. Investigated Emissions Patterns Using EDGAR Data To Link Trends With Pollution Observations (SQL, Python). 5. Analyzed Public Health And Environmental Indicators Using National Family Health Survey (NFHS) Data (Python: Pandas). 6. Developed Actionable Insights To Support Policy-Making And Public Awareness On Air Quality And Biomass Burning.

RESEARCH ASSISTANT (FIVE YEARS)

Department of Geography, University of Calcutta 2017-06 : 2022-06

1. Conducted Coal Fire Monitoring Using Thermal Remote Sensing Techniques (Landsat, Aster). 2. Specialized In Remote Sensing For Monitoring Environmental Changes And Coal Mining Subsidence, And I Presented On Microwave Remote Sensing For Subsidence At The International Conference On Geomorphology (IGI). (SNAP, Mintpy, Sentinel). 3. Developed Land Use Maps And Performed Change Detection Using Optical Remote Sensing Data (ArcGIS, EarthData).

Educations

MASTERS IN GEOGRAPHY

University of Calcutta 2012-07 : 2014-07

Completed A Master's In Geography With A Focus On Geospatial Analysis, Cartography, And Spatial Data Modeling, Gaining Expertise In GIS Tools And Geographic Research Methodologies To Solve Real-World Problems.

Courses

COMPUTATION WITH PYTHON

Computer Aided Design
Centre, Jadavpur University

MICROWAVE REMOTE SENSING APPLICATIONS

National Remote Sensing Centre, Hyderabad

FLOOD DISASTER & MANAGEMENT(WORKSHOP)

Centre for Disaster Preparedness & Management, Jadavpur University

GROUND BASED 3D MODELING (CLOSE RANGE PHOTOGRAMMETRY AND TLS)

Indian Institute of Remote Sensing, Dehradun



Tanya Gupta

Project Scientist

My Contact

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Kolkata-700009

🆔 **0000-0002-2577-4921**

Hard Skill

- **Modeling and Analysis:** Python, Origin Pro 16, XmGrace, MATLAB.
- **Software & Tools:** MS Office, Linux, R Studio, MINITAB, ArcGIS, QGIS.
- **Data mining and analysis**
- **Digital marketing:** Social Media Digital Marketing" Sponsored by Rashtriya Uchchatar Shiksha Abhiyan (RUSA 2.0) under the Project titled "Skill Development Programme on Digital Marketing" organized by the School of Commerce, Bharathiar University.

Soft Skill

- Observation
- Decision making
- Communication
- Multi-tasking

Education Background

- Asutosh College, University of Calcutta
Master of science (M.Sc)
Department of Environmental Science
Overall Percentage: 75
2017-2019
- Rammohan College, University of Calcutta
Bachelor of Science(B.Sc.)
Botany(H)
Overall Percentage: 56
2014 - 2017
- Rajasthan Vidya Mandir, Kolkata
Council for the Indian School Certificate Examinations(CISCE) | 2014
Overall Percentage: 62.75
- Rajasthan Vidya Mandir, Kolkata
Indian Certificate of Secondary Education(ICSE) | 2012
Overall Percentage: 78

About Me

Skilled in conducting research, data analysis, and modeling to inform evidence-based strategies for sustainable air quality management. Seeking collaborations and connections with like-minded professionals to create a cleaner and healthier environment. I would like to work diligently with an organization that provides me with all the opportunities to improve my skills and knowledge as an individual and grow as a whole.

Personal Traits:

- Highly motivated and eager to learn new things.
- Strong motivational and leadership skills.
- Ability to work as an individual as well as in a group.
- Languages Known- English, Hindi, Bengali, French

Communication Skills

Pearson | PTE Academic • ID464912493

Overall Score: 70

- Listening-71
- Reading-68
- Speaking-80
- Writing-66

Professional Experience

- INDIAN INSTITUTE OF TECHNOLOGY, DELHI
Project Scientist at center of atmospheric sciences.
2021 - Present
 - JADAVPUR UNIVERSITY | Field Researcher
EU-DBT sponsored project named "bio-mimetic and phyto-technologies designed for low-cost purification and recycling of water" INDIA-H₂O at Mechanical department.
Nov-2020 - May-2021
 - INDIAN INSTITUTE OF TECHNOLOGY, DELHI | POLICY INTERNSHIP
Nine months Off-site internship in Indian Road Safety Campaign as a project organized by Ministry of Road Transport and Highways.
Aug- Dec 2019
 - KOLKATA CLEAN AIR | Associate
- Key responsibilities:
 1. Analyzed data
 2. Conduct Surveys, workshops, and plantation drives.
 3. Prepared reports on the above information and reported the insights.
- INDIAN INSTITUTE OF TECHNOLOGY, KHARAGPUR
Completed M.Sc. Dissertation at Dept. of Civil Engineering on the topic "Analysis of Measured Fine Aerosol Species in A Semi-Urban Atmosphere, Kharagpur". Feb-May 2019

Achievements

- Best Presentation Award, ICSEH 2019, Malaysia.
- Best Extempore Certification, IPCC Dissemination Workshop, Kolkata.
- First Prize in Seminar Presentation, Van Mahotsav, Rammohan College.
- Honorarium from IIT Kharagpur for work in a proposed journal..

Attended:

Conferences / Workshops

• **Certificate in Remote Sensing and GIS (27/09/2024-27/11/2024)** – Indian Institute of Remote Sensing (IIRS), [2024]

• **Indian Aerosol Science and Technology Association (IASTA) – 2023**

Presented on: "Tracing the Delicate Balance: Quantifying PM_{2.5} Washout Patterns in Delhi's Atmosphere"

• **5th Atmospheric Composition and the Asian Monsoon (ACAM) workshop June 2023.**

Presented on: Ambient Air Pollution and Future Climate Change: Indian Scenario for the middle of 21st Century

• **AGU Fall Meeting 2022**

Presented on: Health effects due to short and long-term air pollution exposure: Evidence from a survey of residents living in rural and urban regions near Kolkata.

• **Environmental Epidemiology and Cardiovascular Health November 2022**

Organized by the Centre for Chronic Disease Control (CCDC), Public Health Foundation of India (PHFI), Harvard T.H. Chan School of Public Health (HSPH) & Karolinska Institutet as part of GEOHealth Hub for Research and Capacity Building.

• **International Workshop on "Tools and Techniques in Air Quality and Health Impact Assessment, November 2019.**

Organized by SPARC in association with the University of Saskatchewan, Saskatoon, Saskatchewan, Canada.

• **Hands-on Training and Exercise on the Tool for Planning of Sustainable Development: ArcGIS-Sep 2019**

Organized by the Centre of Disaster Management, Jadavpur University as a part of TEQUIP-III & RUSA 2.0 Academic program.

• **Active participation in "Earth Day Commemoration"**

by the Indian Institute of Social Welfare and Business Management(IISWBM), Kolkata.

Received appreciation for making Bioplastic from raw materials in Best- Out of- Waste.

• **Breakthrough Science Society**

Ranked 2nd PowerPoint presentation and Quiz competition.

Publications

- Title: A Study on the Impact of Air Pollution on Health Status of Traffic Police Personnel in Kolkata, India

Journal: Air, MDPI

Status: Published: 23 January 2024

- Title: How will climate change affect ambient air pollution and what can policy-makers do now? Lessons from India

Journal: Oxford Review of Economic Policy

Status: Published: 22 November 2023

- Title: Health Effects of Short and Long-Term Air Pollution Exposure

This study has been conducted by Climate Trends LLP, New Delhi, with technical support from the Centre for Atmospheric Science (CAS) and CERCA of IIT Delhi.

Status: Report Published on June 2022

- Title: Impact of Coronavirus (COVID-19) outbreak on three "P" s of sustainability in India.

Journal: MDPI (Sustainability)

Status: Published on 7 March 2021

- Title: Air quality and its effects amid COVID-19

Journal: Current Journal of Applied Science and Technology.

Status: Peer Review Published on 18 April 2021

Book Chapters

- Title: A Study on Impact of COVID-19 on student's Learning and Growing Experiences.

Status: Published in 2022

- Title:

1) A Review of Macrophytes as Phyto- Filters for Waste-Water Treatment.

2) Chemical Characterization of Fine Atmospheric Particles of Water-Soluble Ions in a Semi-Urban Atmosphere (Kharagpur). As conference proceeding 10th iconswm 2020.

Status: Abstract published

- Title: Analysis of Measured Fine Aerosol Species in A Semi-Urban Atmosphere, Kharagpur
The International Conference on Sustainable Environment & Healthcare (ICSEH 2019) held on December 2019.

Status: Abstract published

Extra Curricular

- Conducting sports and cultural programs.
- Active participation in Scouts and Guide.
- Swimming and Reading.
- Keyboard Synthesizer.
- Dance



Atanu De Sarkar

Email: dsatanu1989@gmail.com

Tel: +91 9163879723

Career Objective

To secure a challenging position where I can effectively contribute my skills as a Telecom or Software Professional, possessing competent Technical Skills.

Academic Credentials

Examination	Discipline/ Specialization	School/college	Board/ University	Year of Passing	%
B.Tech	Electronics and Communication Engineering	Mallabhum Institute of Technology, Bankura, West Bengal	West Bengal University of Technology (WBUT).	2012	63%
Higher Secondary	Science	Baidyabati Bonomali Mukherjee Institution	West Bengal Council Of higher Secondary Education(WBCHSE)	2008	63%
Madhyamik Examination	General	Serampore Union Institution	West Bengal Board Of Secondary Education(WBBSE)	2005	65%

Professional Summary (Experience)

- ❖ Worked as a Project Assistant on “Phase II : Seamless environmental management system (SENSE) for West Bengal” in collaboration with IIT Delhi.
- ❖ Previously worked as a Project Scientist on CERCA at IIT Delhi.
- ❖ Previously working with Aryan Publishing House
- ❖ Previously worked as a lecturer (per time) in ‘KPS Institute of Polytechnic’ for PBSSD program under West Bengal Govt.

Computer Proficiency

Microsoft Windows / Linux / Microsoft Office (Word / Excel / Power Point) / Adobe Photoshop / Corel Draw / Page Maker / C / HTML / CSS / DTP / Networking / Python / Machine Learning / Data Analysis

Certifications & Training

Name of Institute / Organization	Project Title	Duration
HP	Embedded Technology	13/06/2011-16/07/2011

Project Work

1. GSM Based Auto Home Appliance

Description :

This Project is based on the SMS — Short Message Service, which is generated automatically whenever the switch goes high to low. The UART receiver, receives the data from GPS and the corresponding device is controlled.

2. Remote control using Telephone.

Description :

This project article focus on a simple DTMF (dual tone multi-frequency) decoder circuit. This circuit can be interface to a computer, allowing caller to computer interaction. Many communication application can be build for example, a computerize call receiving/diverting phone network system. Remote control to Home/Office electrical appliances using a telephone network.

Seminar

1. G.P.R.S system

2. Induction Heating

Personal Profile:

Name	Atanu De Sarkar
Father's Name	Late Achin De Sarkar
Sex	Male
Marital Status	Single
Nationality	Indian
Hobbies	Playing Mouth Organ, Flute, Guitar
Language Known	Bengali, English and Hindi
Permanent Address	4/4 Jagabandhu Mukherjee Lane, Sheoraphuli, 712223
Phone No	91-9163879723
Date of Birth	26-03-1989

Declaration:

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

Place Sheoraphuli
Date 09-02-2025

Signature : 