

Md Iftekhar Sayeed Khan

123, Fulbaria Road, Akua, Mymensingh Sadar-2200

Mymensingh, Bangladesh

E-mail: ifteekhar43833@gmail.com

Cell: +880 1685 056058

Profile Links:

[Personal Website](#) 

[ResearchGate](#) 

[LinkedIn](#) 

[GitHub](#) 

RESEARCH INTERESTS

Geohydrology, Hydro-informatics, Hydro-Climatology, Watershed Management, Land-Atmosphere Interaction, Emerging Contaminants, Water Quality, Remote Sensing, Machine Learning & Statistics.

EDUCATION

B.Sc. in Civil Engineering (January, 2018 – July, 2023)

Chittagong University of Engineering and Technology CGPA: 3.19/4.00 (3.49 in last 80 Credits)

- Departmental Scholarship (Last 5 Semesters) Class Rank: 26th/131

PROFESSIONAL EXPERIENCE

Research Officer (Modeling & Analysis) July, 2024 - Present

[C4RE Services](#), Baridhara DOHS, Dhaka-1206, Bangladesh.

Roles/Responsibilities -

- Data modeling & Analysis
- Remote Sensing & GIS Mapping
- Publication & Reporting

RESEARCH & PROJECT EXPERIENCE

Visit my [personal website](#) for more details

- Vertical Distribution of Microplastic and Heavy Metal in Landfill Soil and Groundwater (Undergraduate Thesis). Jul, 2022 – Jun, 2023
- Effects of Sea Level Rise in Chattogram. Aug, 2023 – Dec, 2023
- Detecting Marine Debris with Sentinel Satellite Data: A Machine Learning Approach. Nov, 2023 – Apr, 2024
- Seasonal & Temporal Variation of Air Pollution (NO₂, CO and Aerosol Index) in Bangladesh Using Sentinel Satellite Data. Mar, 2024 – Present
- Temperature and Precipitation Variability in the GBM River Basin in Climate Intervention scenarios of GeoMIP Simulation (Research under C4RE). Jul, 2024 – Present
- Smart Livestock Farming: Enhancing Control with Vector Surveillance Maps (Project under C4RE). Jul, 2024 – Present
- Data Mapping Slums of Mirpur for Community Development & Decision-Making (Project under C4RE). Jul, 2024 – Present

PUBLICATIONS

S. Ghosh, M. I. S. Khan, S. K. Pal, R. Hasan (2024) “**Vertical Distribution of Microplastics & Heavy Metals in Landfill Soil and Groundwater**”, *7th International Conference on Civil Engineering for Sustainable Development (ICCESD-2024)*, 7-9th February 2024, Khulna University of Engineering and Technology (KUET), Khulna-9203, Bangladesh. ISBN: 978-984-35-5704-9. Paper ID: 539.

http://www.iccesd.com/proc_2024/Papers/539.pdf

M. I. S. Khan, I.U. Haque, S. Ghosh, A. Bhowmik, K. R. Rahman (2024) “Effects of Sea Level Rise in Chattogram”, 7th International Conference on Civil Engineering for Sustainable Development (ICCESD-2024), 7-9th February 2024, Khulna University of Engineering and Technology (KUET), Khulna-9203, Bangladesh. ISBN: 978-984-35-5704-9. Paper ID: 541.

http://www.iccesd.com/proc_2024/Papers/541.pdf

MANUSCRIPT SUBMITTED

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- Detecting Marine Debris with Sentinel Satellite Data: A Machine Learning Approach.
- Seasonal and Temporal Variation of Air Pollution (NO₂, CO and Aerosol Index) in Bangladesh Using Sentinel Satellite Data.

TECHNICAL SKILLS

Programming Language: Python, JavaScript
Data Analytics & ML: Python, Jupyter Lab
Packages: Pandas, Matplotlib, Seaborn, Scikit-learn,
OS, Glob etc.

Typesetting: MS Word, LaTeX
Geographic Information System: ArcGIS, Google
Earth Engine.

STANDARDIZED TEST SCORES

Test of English Proficiency as a Foreign Language (IELTS)

October 12, 2023

Total	Reading	Listening	Speaking	Writing
8.0	9.0	9.0	6.5	6.5

GRE General Test

August 12, 2024

Total	Verbal Reasoning		Quantitative Reasoning		Analytical Writing	
	Scaled Score	Percentile	Scaled Score	Percentile	Score	Percentile
313	151	43	162	60	3.5	41

TRAINING AND CERTIFICATIONS

- Industrial Trainee, Chittagong Water Supply and Sewerage Authority (CWASA), Chattogram, Bangladesh.
- Python for Machine Learning & Data Science, Udemy.
- ArcGIS for Spatial Analysis, Udemy.
- Remote Sensing with GEE Cloud Computing, Udemy.

REFERENCES

Dr. Sudip Kumar Pal (Ugrad Thesis Supervisor)
Professor, Department of Civil Engineering
Email: sudip@cuet.ac.bd
Mobile: +880 1770 621383
Chittagong University of Engineering and Technology
Chattogram-4349, Bangladesh.

Dr. Md Aftabur Rahman
Professor, Department of Civil Engineering
Email: maftabur@cuet.ac.bd
Mobile: +880 1708 519273
Chittagong University of Engineering and Technology
Chattogram-4349, Bangladesh.