

MD. ASHIKUR RAHMAN JOY

Email: ashik.kuet.urp1617047@gmail.com | +880-1521-410229 | **LinkedIn** : Md. Ashikur Rahman Joy

RESEARCH INTEREST

My research focuses on using **Geospatial Technologies**, GIS, and Remote Sensing to address Environmental challenges and foster **Sustainable Urban Development**. I aim to integrate **Machine learning** and **Big Data** analytics to create evidence-based solutions for **Climate Change** adaptation and **Natural Resource Management**.

EDUCATION

Bachelor of **Urban and Regional Planning (BURP)** [March 2017- April 2022]

Khulna University of Engineering & Technology (KUET), Khulna, Bangladesh

CGPA: 3.71 (out of 4.00)

Undergrad Thesis: A Geospatial Analysis of Landslide Susceptibility Modeling of Chattogram Hilly Areas, Bangladesh.

STANDARDIZED TEST

IELTS - 7.5/9 (Listening- 9.00; Speaking- 6.50; Reading- 7.00; Writing- 6.50)

PUBLICATIONS

Peer- Reviewed Journal Articles

- Joy, M. A. R., et al. (2023). Application of GIS and remote sensing in morphometric analysis of river basin at the south-western part of great Ganges delta, Bangladesh. *Hydrology Research*. [Article Link](#). IF: 2.7; Q2
- Fatema, K., Joy, M. A. R., Amin, F. R., & Sarkar, S. K. (2023). Groundwater potential mapping in Jashore, Bangladesh. *Heliyon*. [Article Link](#). IF: 4.0; Q1
- Haque, M.N., Fatema, K. & Joy, M.A.R. (2022), "Crop suitability analysis by adopting geo-spatial algorithm: a case study of Sirajganj district (flood-prone area) in Bangladesh", *Arab Gulf Journal of Scientific Research*. [Article Link](#). Q4
- Akhtar, S., Joy, A. R., Suchi, S. A., & Hossain, M. (2021). Preparedness planning and management: A literature review emergency fire. *Teikyo Medical Journal*, 44(5), 1897–1921.

Article Under Review

- Jahan, I., Khondoker, M. T. H., Karim, M., Joy, M. A. R. Comprehensive Analysis of Challenges and Factors Influencing Green Building Practices in a Developing Country: A Study in Bangladesh.

Book Chapter

- Akhtar, S., Joy, A. R., & Suchi, S. A. (2022). The Perspective of the Bangladeshi Students About the Impact of COVID-19 on Higher Education. In M. Islam, S. Behera, & L. Naibaho (Ed.), *Handbook of Research on Asian Perspectives of the Educational Impact of COVID-19* (pp. 347-365). IGI Global. <https://doi.org/10.4018/978-1-7998-8402-6.ch020>

TECHNICAL SKILLS

Geospatial Software	ArcGIS, QGIS, Google Earth Engine, Pix4D, Metashape
Statistical Analysis	IBM SPSS Statistics, STATA
Programming	SQL, Python (Basic)
Office Tools	MS Word, MS Excel, MS PowerPoint, MS project
Planning and Design	AutoCAD Civil 3D, SketchUp 3D
Data Collection Tool	QField, KoboToolbox
Graphics & Video Editing	Adobe Illustrator, Canva pro, Filmora, Camtasia

ASSOCIATED PROJECTS

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|---|------|
| • Impact of Climate Change on Agricultural Productivity in Shyamnagar and Assasuni Upazilas | 2024 |
| • Preparation of Upazila Master Plan (Manoharganj & Fakirhat) | 2024 |
| • Mouza and Plot Based National Digital Land Zoning | 2023 |
| • Feasibility Study for Sunamganj-Durgapur Border Road | 2023 |
| • Capacity Building for Protection of Children from Sexual Abuse and Drug Addiction | 2022 |
| • Cause and Effect Analysis of Major problem of Ispahani Labor Colony, Khulna | 2021 |

PROFESSIONAL EXPERIENCE

Assistant Urban Planner (GIS & RS): Sheltech Consultants (Pvt.) Ltd. (SCPL) March 2024 – Present

Task & Responsibilities: Acquiring, Processing, and Analyzing geographic and spatial data using satellite imagery, drone digitization, and various GIS techniques. I also collaborate with experts to ensure data accuracy, perform multi-criteria analyses, and deliver high-quality spatial databases for urban planning projects.

Urban Planner: Global Sources Bangladesh (GSBD) Jun 2023 – Feb 2024

Task & Responsibilities: Applying Photogrammetry image composition techniques with Pix4D software; processing GIS data, performing spatial analysis and contributing on the report preparation for Gopalganj city master plan.

Junior Urban Planner: Development Design Consultation Limited (DDC) Nov 2022 – May 2023

Task & Responsibilities: GIS data preparation from RTK survey by using Google earth pro and management of Geo Database; performing geoprocessing tools for solving geospatial issues; Preparing Road inventory, road section and road condition survey reports using analytical methods in GIS; map digitizing, georeferencing and land use classification using worldview 3 imagery.

Research Assistant: Department of Urban & Regional Planning, KUET Jan 2020 – Oct 2022

Task & Responsibilities: Research article and report writing; Conducting social, physical surveys, FGD, KII and Data analysis with excel and SPSS; Processing satellite images of Landsat 8, 7 & 5, Sentinel 2A & 2B; Determining Land Use change dynamics and raster analysis of Land use Indices. Performing DEM based topographic analysis.

AWARDS & HONORS

Research Scholarship	Local Environment Development and Agricultural Research Society
Dean's Award	KUET Civil Faculty (For excellent result in 5th, 6th, 7th & 8th Semester)
Technical Scholarship	KUET ((For excellent result in 2nd, 3rd & 4th year)

TRAINING & CERTIFICATIONS (Issuing Authority – COURSERA)

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|---|---|
| • Geographic Information Systems Specialization | • Sustainable Cities Specialization |
| • Spatial Data Science and Applications | • Python for Everybody Specialization |
| • GIS, Mapping, and Spatial Analysis Specialization | • Data Analysis with Python |
| • Remote Sensing Image Acquisition, Analysis and Applications | • Data Visualization with Python |
| • Excel Skills for Business Specialization | • SQL for Data Science |
| | • Database Design and Basic SQL in PostgreSQL |

REFERENCE

Available on Demand