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| Tasnia Nowrin | *Mirpur 14, Dhaka, Bangladesh*   * *+880 1533 67 53 88*   *✉*[*tasniannowrin@gmail.com*](mailto:tasniannowrin@gmail.com) |

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|  | Research Interests |
|  | I have academic and research experience in solving urban and regional planning problems through the application of geospatial and statistical tools, technologies, and policy-driven interventions. I am highly motivated to work on geospatial problems using machine learning, AI, and technology-driven methods, and I am eager to explore new technologies in this field. |
|  | Education |
| 2019 - Present | **Bachelor in Urban & Regional Planning**, *Faculty of Civil Engineering, Khulna University of Engineering & Technology (KUET)*, CGPA– 3.97 on 4. |
| 2017 - 2019 | **Higher Secondary Certificate** *(Science), RAJUK Uttara Model College,* GPA – 5.00 on 5.00 |
|  | Thesis |
|  | Bachelor’s Thesis |
| Title | *Urban Growth Dynamics and Socioeconomic Drivers in Khulna: A Spatiotemporal Perspective* |
| Supervisor | Professor Dr. Md. Manjur Morshed |
| Description | An urban expansion analysis using Remote Sensing and Socioeconomic Indicators (2000–2020) integrating binary classification, spatial statistics geographic distribution tools including JavaScript and geographic information systems. |
|  | Projects |
|  | * **Regional Economics Analysis of Rajshahi Division**   *Used PCA, SPSS, and GIS to map economic disparities.* |
|  | * **Assessment of Child Friendliness in Ispahani Colony, Khulna**   *Conducted statistical analysis, field and questionnaire surveys.* |
|  | * **Transportation Surveys**   *Traffic surveys, AutoCAD, GIS and Excel for intersection and mobility analysis.* |
|  | * **Comparative Analysis of Smart Village Potential: Evaluating the Smartness of Botiaghata and Betaga Union**   *Field and questionnaire surveys, GIS and SPSS-based of digital infrastructure in rural Bangladesh* |
|  | * **Heritage Restoration – The Mosque City of Bagerhat**   *Developed DPP & ToR with feasibility, budgeting, impact analysis & stakeholder mapping* |
|  | * **Water Scarcity in Rajshahi Division: A feasibility Study for Sustainable Solutions**   *Meta-analysis and GIS-based rainwater harvesting and recharge strategy.* |
|  | * **Sustainable Desalination Technologies: A Solution to Coastal Water Scarcity in Bangladesh**   *PV-RO technology planning with GIS mapping for coastal water security.* |
|  | Experience |
|  | Professional |
| Oct 2024 | **Intern**, [*Tiller*](https://tiller.com.bd/), Dhaka, Bangladesh |
|  | Contributed to the “Preparation of Risk Sensitive Database for Core Area of Rangpur and Sylhet District Town (SRDP)” project by preparing zoning and Mouza maps using GIS. |
| 2022 - Present | **Research Assistant**, [*Center for Environmental Research (CER*](https://www.linkedin.com/company/center-for-environmental-research-cer/posts/?feedView=all)*)* |
|  | Assisting in urban planning and environmental sustainability research using geospatial tools like GEE, ArcGIS, and Python. |
|  | Leadership & Extracurricular |
| 2020 - 2024 | **Team Leader**, Academic Lab Projects |
|  | Led multiple projects in GIS and urban planning. |
| 2020 – 2023 | **Co-Organizational Secretary**, [KUET Theatre](https://www.facebook.com/people/%E0%A6%95%E0%A7%81%E0%A7%9F%E0%A7%87%E0%A6%9F-%E0%A6%A5%E0%A6%BF%E0%A7%9F%E0%A7%87%E0%A6%9F%E0%A6%BE%E0%A6%B0/100088431170158/?sk=reels_tab) |
|  | Event planning and team coordination. |
| 2019 - 2024 | **Co-Founder**, Jolphoring Online Clothing Shop |
|  | Brand development and customer engagement. |
|  | Skills |
| Coding | Python, JavaScript, C, R |
| GIS & Data Analysis Tools | ArcGIS, Google Earth Engine (GEE), Google Earth Pro, SPSS, Excel |
| Designing Software | AutoCAD, SketchUp |
| Application Software | Microsoft Excel, Microsoft PowerPoint, Microsoft Word |
| Techniques | Remote Sensing, GIS Modeling, Spatial Analysis, Machine Learning |
| Academic | Technical Writing, Research Design, Literature Review, Report Preparation, GIS-Based Modeling |
| Soft Skills | Leadership, Teamwork, Project Management, Communication under Pressure |
| Languages | Bangla (Native), English (Proficient) |