# PRITAM KARMAKAR RONY





727 W AVE D, APT 17, KINGSVILLE, TEXAS,USA

—— Education ——

### ENVIRONMENTAL ENGINEERING

Studying Master's in Science Texas A&M University - Kingsville, Kingsville, Texas, USA

#### CIVIL AND ENVIRONMENTAL ENGINEERING

Bachelor in Science (Engineering) Shahjalal University of Science and Technology, Sylhet, Bangladesh CGPA: 3.25/4.00 | May 2023

—— Experience ———

#### RESEARCH ASSISTANT

Dept. of Environmental Engineering Texas A&M University - Kingsville, Kingsville, Texas, USA June 2024-Present

### RESEARCH CONSULTANT

River, Delta and Coastal Morphology Division Center for Environmental and Geographic Information Services (CEGIS), Dhaka, Bangladesh June 2023-May 2024

#### **RESEARCH ASSISTANT**

Dept. of Civil and Environmental Engineering Shahjalal University of Science and Technology, Sylhet, Bangladesh April 2021-May 2023

- Have done 1D and 2D models in HEC-RAS
- Have done 3D model in Delft3d
- Perform different Hydrodynamic Analysis
- Have done Frequency Analysis Study using Statistical Software
- Check the Impact of Dredging in Surma River

## — Research Interest ——

- Hydrodynamic/Hydrologic/Hydraulic Modelling
- River/Delta/Coastal Morphology
- Coastal Modelling, Coastal Oceanography and Sediment Analysis
- Climate Change, Prediction and Mitigation
- Application of integrated technique of Remote Sensing and GIS
- Development of Advance Flood Forecasting System
- Hydroclimatic dynamics and its application to the design of water and infrastructure systems
- Probabilistic forecasting and Machine Learning
- Natural Hazards, Disaster Resilience
- Transport and Fate of Sediment and Nutrients
- Air, Water Quality Prediction

<u> </u>	— Computational Skills ———
MODELLING TOOLS HEC-RAS, Delft3D, SWMM, SOBEK.	MAPPING AND DRAWING TOOLS Arc-GIS, AutoCAD
PROGRAMMING TOOLS	TYPESETTING AND STATISTICAL ANALYSIS TOOLS
Python, C++, Google Earth Engine	MS Word, MS Excel, SPSS, MS Power-Point
•	– Manuscript Published ————
Assessment of dredging impact on Hy	ddin, Gazi Md. Riasat Amin, Dr Gulam Md. Munna, Dheeman Das Dibya; /drodynamics of Surma River using Hydrodynamic model: HEC-RAS approach. wpt2023092. doi: https://doi.org/10.2166/wpt.2023.092
•	Manuscript under Work ————
<ul><li>Methods of Machine Learning.</li><li>A Machine Learning Approach to P</li></ul>	S., n.d. Rainfall Prediction of Sylhet District in Bangladesh using Different redict Air Quality of Sylhet City in Bangladesh inding Vulnerable Points on Delaware Bay
<u> </u>	Manuscript under Review ———
	nan Shochib, Md. Abid Hasan, <b>Pritam Karmakar Rony</b> , Prediction of water artificial neural network model. Water Practice and Technology 2024
• C	onference paper Accepted ————
	ssessment of Dredging Impact on Hydrodynamics of Surma River using ional Conference of Water and Flood Management.
<u>۰</u>	Project Work On-going ———
• Monitoring and Analysis of Sedim	ent and Nutrients and their Associated Pollutant Loads
<u> </u>	—— Training Done ——→
Capacity Development on Integrated	Application of GIS and Remote Sensing
<u> </u>	– Volunteer Experience –
2. Former School Coordinator, Swapn	of Civil and Environmental Engineering, SUST. otthan, A voluntary organization for unprivileged children, SUST. f Civil and Environmental Engineering, SUST rd people