

MD. NAZMUDDOHA ANSARY

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EXPERIENCE

- **Senior Researcher (Deep Learning)**
[Royal It Limited](#), Dhaka, Bangladesh (May 2019 – present)
- **Research Assistant (RA)**
Laboratoire d'Etudes en Géophysique et Océanographie Spatiales ([LEGOS](#)), France (July 2018 – October 2018)
- **R&D Software Engineer**
[Celltron LTD](#), Dhaka, Bangladesh (May 2017 – December 2017)
- **Researcher (Academic): Satellite Data Processing and Machine Learning**
In association with: IWFM and Dept. of CSE, BUET, Dhaka, Bangladesh
(November 2018 – April 2019)

EDUCATION

Degree	Institution	Result
S.S.C	Govt. Laboratory High School, Rajshahi	G.P.A- 5.00/5.00
H.S.C	Govt. New Degree College, Rajshahi	G.P.A- 5.00/5.00
B.Sc (EEE)	BUET	C.G.P.A- 3.20/4.00

PUBLICATIONS

- **High Resolution Intertidal Topography from Sentinel-2 Multi-Spectral Imagery: Synergy between Remote Sensing and Numerical Modelling**
Md Jamal Uddin Khan , [Nazmuddoha Ansary](#) , Fabien Durand , Laurent Testut , Marufa Ishaque, Stéphane Calmant , Yann Krien , A.K.M. SaifullIslam , Fabrice Papa .
[Remote Sensing](#), 2019; 11(24):2888. (Impact Factor - 4.118)

- Paper Link: <https://www.mdpi.com/2072-4292/11/24/2888>
- Funding: This research was funded by CNES (French Govt. Space Agency) through the "BANDINO" TOSCA grant.

Personal Contribution: Module Development For Shoreline Extraction Algorithm (Link:[GITHUB](#))

- ***A Sweet Recipe for Consolidated Vulnerabilities: Attacking a Live Website by Harnessing a Killer Combination of Vulnerabilities for Greater Harm.***

Mazharul Islam, [Md.Nazmuddoha Ansary](#), Novia Nurain, Salahuddin Parvez Shams and A. B. M. Alim Al Islam.

- Paper Link: [10.1109/NSysS.2018.8631373](https://doi.org/10.1109/NSysS.2018.8631373)

Personal Contribution: The exploitation and security evaluation of the Govt. website (<http://teacher.xxxx.xx.xx>) mentioned in the paper

- ***Analysis of Modular Multilevel Converter Based Solid State Transformer Implementing Hybrid Control.***

Rajesh Paul, [Nazmuddoha Ansary](#), Abdur Rokib, Irrtisum Khan and Shamim Reza.

- Paper Link: [10.1109/ICFCE.2018.8636742](https://doi.org/10.1109/ICFCE.2018.8636742)

Personal Contribution: MATLAB Implementation of the algorithm (Link:[GITHUB](#))

- ***Intertidal digital elevation model (DEM) of CHITTAGONG using high-resolution SENTINEL 2 imagery and tidal model. (IN PRESS)***

[Nazmuddoha Ansary](#), Md. Jamal Uddin Khan, Fabien Durand, A.K.M. Saiful Islam.

- At 7th ***International Conference on Water and Flood Management-ICWFM 2019***
- Funding: CNES, French Embassy, Dhaka.

Personal Contribution: Satellite Image Processing, Python Module development

- ***R3Diver: Remote robotic rescue diver for rapid underwater search and rescue operation.***

Fattah, S.A., Abedin, F., [Ansary, M.N.](#), Rokib, M.A., Saha, N., & Shahnaz, C.

- Paper Link: [10.1109/TENCON.2016.7848658](https://doi.org/10.1109/TENCON.2016.7848658)

Personal Contribution: Arduino UNO programming (C/C++) of the ROV control

- ***Particle Size Analysis by Image processing Technique.***

Khaled M. Ehsan, Md. Raquibul Hossain, Tanvir Manzur, [Ansary Shohag](#), Nazifa Tabassum.

- Paper Link: [Paper Link](#)

Personal Contribution: Implementation of the algorithm in MATLAB (Link:[GITHUB](#))

ON GOING

- ***Water level modeling for flood forecasting based on BMD provided rainfall data with Recurrent Neural Networks.***

[Nazmuddoha Ansary](#), Md Jamal Uddin Khan, Dr. Mohan Kumar Das .

(Link:[GITHUB](#)) - Currently Being Communicated

- ***Forged Image To Natural Image reconstruction: Analysis of GAN architectures in the context of image reconstruction .***

[Nazmuddoha Ansary](#), Shakir Hossain, Shahriar Prince, Mohammad Bin Monjil .

(Link:[GITHUB](#)) - Currently Being Communicated

PROJECTS

MACHINE LEARNING AND IMAGE PROCESSING

- HandWritten Bangla Character Recognition Using Advanced Convolutional Neural Networks (Link:[DenseNet Implementation: H-OCR](#))
- Sentinel-2 Satellite Data Handling Library (Link:[SATLIB](#))
- TPU-keras BusterNet for Image forgery Detection (Link:[BusterNET TPU](#))
- Classification Of Skin Disease (Link: [pySKIND](#))

COMPUTER SECURITY

- Binary Hacking Training Presentation: (Link:[Binary Exploitation Basics](#)) Topics:
 - Bypassing a password checking binary
 - Ways to know the actual password
 - REVERSE ENGINEERING, KEYGEN,PARSER DIFFERENTIAL, and many more.
- .hta ([CVE-2017-0199](#) and [CVE-2017-8570](#)) and VBA-Script vulnerability binary assessment for evading virus definitions on MS-WORD and MS-POWERPOINT exploiting OLE (Object Linking and Embedding) vulnerabilities in MS-OFFICE 2016. (*Valid Till-2017 December*)
- Improvised Technique with SSLSTRIP, dns2proxy, and ARP spoofing for getting HTTPS data in the local Wi-Fi-network (*Valid Till-2017 October*)

ACADEMIC GROUP PROJECTS

- Speech Recognition with MFCC feature extraction (MATLAB).
- Heart Rate Monitoring and health evaluation (MATLAB, Arduino).
- Highway Vehicle tracking and counting via live video feed and comparing efficiency between Matlab Computer Vision and Python OpenCV
- DLD project on the digital clock

COMPUTER SKILLS

Programming Languages:

- **Python:**
 - *Specialties* : TensorFlow,Keras,sklearn,OpenCV,pandas,GDAL
 - *Familiar with* : Django,facebook-SDK
- **MATLAB:**
 - *Specialties* : Simulink, Computer Vision toolbox
- **C/C++:**
 - *Specialties* : Network programming
- *Familiar with* : Java,C#, Javascript (electron,node.js)

Operating systems:

- Proficient in* : Ubuntu, Kali Linux, Windows
- Familiar with* : Jessie (Raspbian), Zorin OS, Fedora

Tools and Programs:

- Text* : Microsoft Office, LibreOffice,LATEX
- Disassemblers* : gdb,radare2
- Exploitation Frameworks* : BEEF, Metasploit
- Network Analysis Tools* : Wireshark, sslstrip, Fluxion
- Vulnerability Scanners* : Nikto, Nmap, NetSparker, Burp Suite

REFERENCES

- **Dr. A. B. M. Alim Al Islam**
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Bangladesh University of Engineering and Technology (BUET)*
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- **Dr. Md. Shamim Reza**
*Associate Professor, Department of Electrical and Electronic Engineering,
Bangladesh University of Engineering and Technology (BUET)*
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- **Dr. Fabien Durand**
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