Sohel Rana

Data Science & Artificial Intelligence (AI) Researcher•

Sohelrana.ccse@gmail.com

**** +880 1627462799

in www.linkedin.com/in/sohel-rana-0a7299124

https://www.researchgate.net/profile/Sohel_Rana5

https://github.com/sohel-ccse

https://www.kaggle.com/sohelranaccselab

Purbachal New Town , Dhaka, Bangladesh



Career Objectives

I am goal oriented and dedicated towards work. I have the ability to work under pressure and meet deadlines of the Research projects. I would like to utilize my skills and experience as well as my passion for a challenging career in a dynamic and progressive sector where my creativity and innovative Capabilities can be efficiently & effectively flourish.

Working Experience

Position: "Researcher"

Duration: 01/03/2019-Present

Institution: Independent University, Bangladesh (IUB).

Department: School of Engineering & Computer

Science.

(*) Major Research Areas: Data Science, Artificial

Intelligence (AI)

Research Papers/Publications

- "Satellite Image Classification Using Deep Learning Algorithms"
 - Publisher: (Only Writing Part is Pending)
- "Tomato leaf Disease Classification Using Deep Learning Algorithms"
 - Publisher: (Only Writing Part is Pending)
- "Deep Hierarchical Spectral Spatial Features for Hyper-Spectral Image Classification Based on Hybrid 3D-2D Convolutional Neural Network(CNN)"
 - Publisher: (Only Writing Part is Pending)
- "Brain MRI Images for Brain Tumor Detection LGG Segmentation Using Deep Learning Algorithms"
 - Publisher: (Only Writing Part is Pending)
- "On-Body Circular Patch Antenna for Breast Cancer Detection"
 - Publisher: IEEE

 (International Electromagnetics and Antenna Conference 2019 -> October_

2019)

❖ Paper ID: 1570589604

•ML frameworks : Keras , Tensorflow, Pytorch, FastAi

Programming: Python, JavaScript, Matlab

•Data Base: SQL with Google BigQuery

•Operating System: Mac Os, Linux (Ubuntu), Windows 10

•IDE &Web tools: Sublime Text 3 ,Anaconda, Google Colab

Core Strengths:

- Deep Learning.
- Computer Vision,
- Supervised & Unsupervised Machine Learning
- Data analytics
- Problem Solving ,Team Work & Leadership

Top Research Projects

(1) "Data Science for Space and Earth Science"

- Key Words: Space Weather Forecasting, Time Series Remote Sensing Data, Climate Change, Natural Disasters Monitoring, NASA's Eyes, Python,...
- (2) "Near Real Time Air Pollution Monitoring & Forecasting in 2020 With Satellite Remote Sensing Data: A Case Study of Chine"
- Key Words: Google Earth Engine, JavaScript, Resource Watch, Public Health & Environment Science, Air Quality, Remote Sensing..

(3)"Advanced Business Intelligence & Data analytics"

 Key Words: Market Segmentation, Prescriptive analytics, BigQuery, Descriptive analytics, NLP, BERT, Transformer, Neural Networks, Predictive analytics, Unsupervised & Supervised ML, Statistics, Data Science.

(4)"Human Dynamics in Modern World With Artificial intelligence Applications "

 Key Words: Covid-19 Forecasting, Pattern & image recognition, Image Classification, Auto Encoders, U-Net, Segmentation, Neural Networks, RNN,LSTM, NLP,BERT, Transformer, CNN, Transfer Learning, Real Time Objection Detection, YoloV3&V5, Biomedical Signal Processing, Statistical modeling, Supervised, ML,ANNs, Google Big Query, Data Science

Educational Profile

- Department: Bachelor of Science (B.Sc.) in Electrical & Electronic Engineering [Jan 2016-Dec 2019].
 - → Institution: American International University Bangladesh (AIUB).
 - → CGPA: 3.25 out of 4.00
 - → Earned 145 Credit Included elective in "Digital Design with System Verilog, VHDL" &
 - "Computer System Architecture"
 - → Undergraduate project title: **Design and Implementation of an On-Body Circular Patch Antenna for Breast Cancer Detection.**

Kaggle Competitions Achievements

- •Top 1 %: "House Prices: Advanced Regression Techniques"
- •Top 1 %: "Titanic: Machine Learning from Disaster"
- ◆Top 1 %: "Hand Digit Recognizer"
- •Top 2%: Petals to the Metal: Flower Classification on TPU"
- ◆Top 8 %: "Mechanisms of Action (MoA) Prediction"
- •Top 14%: "Lyft Motion Prediction for Autonomous Vehicles"
- •Top 16%: "Google Research Football with Manchester City"
- ◆Top 21: "Google Landmark Recognition 2020"

Online Courses, Extra-Curricular Activities & Language Skills

- (1) MITs Micromasters in Statistics and Data Science: "Machine Learning with Python-From Linear Models to Deep Learning" At EDx online Platform"
- (2) "Advanced Topics in SQL by Standford University " At Edx Online Platform
- (3) Applied Climate Change, Environment and Adaptation" at NASA's AREST Online Platform

Extra-Curricular Activities:

- General member at IEEE AIUB Students Branch
- Duration:2016 to 2018

Language Skills:

- Bengali(Fluent: Oral &Writing)
- English(Medium: Oral &Writing)

Certificates

- •"Machine Learning and Deep Learning for Intelligent Systems"

 Org: Japan Bangladesh Robotics and Advanced Technology Research Center(JBRATRC)
- •"Student Professional Awareness Venture (SPAVe)3.0" Presented by IEEE AIUB SB, IEEE Young Profeessionals& IEEE Bangladesh Section(BDS)

 Org: American International University Bangladesh (AIUB)
- "International Workshop on Communication Skills Development-2018" → Dhaka Round Org: English Olympiad
- "IEEE Bangladesh Section Student Young Women Member (SYWM)Congress 2018" Org: Bangladesh University of Engineering and Technology(BUET)
- "Workshop on Worldwide Opportunity in VLSI" Presented by Ulkasemi at International Conference on Robotics, Electrical and Signal Processing Techniques (ICREST 2019)"

Org: American International University Bangladesh (AIUB)

References

Dr. Mahady Hasan

Head of CSE Department,

Dept: School of Engineering & Computer Science,

Lab Head: FabLab-IUB.

Independent University, Bangladesh (IUB).

Email: mahady.hasan@iub.edu

Md. Saiful Islam

Lecturer at BRAC University,

Department of Computer Science & Engineering (CSE) Senior Researcher at IUB,

Dept:School of Engineering & Computer Science -IUB.

Co-Advisor, Robotics Club of BRAC University- ROBU.

Coordinator, IQAC ($\ensuremath{\mathsf{HEQEP}}$ & $\ensuremath{\mathsf{UGC}}$) & $\ensuremath{\mathsf{IEB}}$ ($\ensuremath{\mathsf{Institution}}$

of Engineers, Bangladesh) Accreditation.

Focal Person, a2i-Access to Information.

Email: md.saiful.islam@bracu.ac.bd