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Taoseef Ishtiak
B.S. in Computer Science and Engineering
North South University, Bangladesh

Expertise

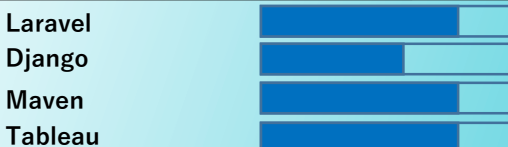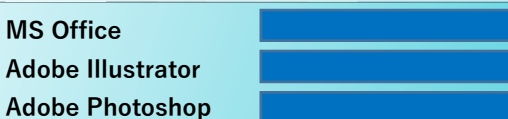### Hard Skills

Coding
Data Science Skills and Tools
Database Knowledge
Problem Solving

Soft Skills

Leadership
Collaboration
Research
Critical Thinking
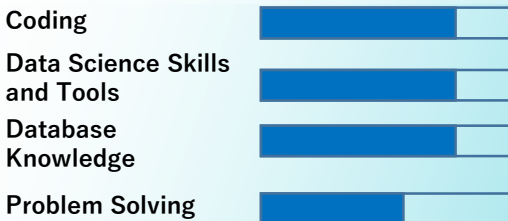
Programming and Query Languages

Python
Java
C++ and Arduino
JavaScript
R
PHP
Matlab
SQL

Frameworks and Tools

Laravel
Django
Maven
Tableau

Other Computer Expertise

MS Office
Adobe Illustrator
Adobe Photoshop

Languages

Fluent in Reading, Speaking and Writing in English and Bengali

Motivation
I have pursued my B.S. in Computer Science and Engineering from the passion for exploring this field. With the aim, I have the focus to engage in research activities, in the field of Data Science and Machine Learning. Amidst the vast field of computer science, the field of Algorithms, Computer Vision, Data Science, and Machine Learning have attracted me the most. I wish to take higher education in exploring these fields. I also have the ambition to do research on the corresponding field and contribute to the research field, community and industrial development of my country.

Educational Background
B.S.: 2020, from North South University, with CGPA 3.79
Higher Secondary School Certificate: 2015, from Notre Dame College with GPA 5.00
Secondary School Certificate: 2013, from Ideal School and College, with GPA 5.00

Field of Interest
Algorithms, Computer Vision, Data Science, Machine Learning and Data Mining.
Hobby
Traveling, Reading Books.
Co-curricular Activities
Debating, Anchoring, Graphics Designing, Science Project Development, Event Organizing, Volunteering.

Experience
1. Research Assistant at North South University in two funded projects.
2. Teaching Assistant at North South University for the courses: Java Programming Language, Data Structure and Design and Implementation of Algorithms.
3. Member R&D NSU ACM Students Chapter.
4. Machine Learning workshop instructor of IEEE NSU Student Branch.
5. Sub-Executive NSU ACM Students Chapter- Logistics and Administration.
6. Former intern as front end developer at Doctobaari (https://doctorbaari.com).
7. President Administration - Notre Dame Science Club (Session 2014-15).
8. Vice President Administration - Ideal Science And Technology Aiming Research Council (Session 2012-13).
9. Advisor and Debater - Ideal Debating Club (Session 2011-12).

Selected Projects and Research Publications

01. Conference Paper at WMSCI 2019, Orlando, Florida, USA, entitled, **"Road State Classification of Bangladesh with Convolutional Neural Network Approach"**. (Indexed by Scopus: (2019) WMSCI 2019 - 23rd World Multi-Conference on Systemics, Cybernetics and Informatics, Proceedings, 4, pp. 129-134.)

02. Conference Paper at World Conference on Smart Trends in Systems, Security and Sustainability 2019, London Metropolitan University, entitled, **"A Convolutional Neural Network Approach for Road Anomalies Detection in Bangladesh with Image Thresholding".**(https://ieeexplore.ieee.org/abstract/document/8903936)

03. Conference Paper at IEMCON 2019, Vancouver, Canada at University of British Columbia, entitled "**A Minimalist Model of IoT based Sensor System for Sewage Treatment Plant Monitoring**". (https://ieeexplore.ieee.org/abstract/document/8936182)

04. Designing an algorithm to detect the number of cracks on a road surface and estimating the surface condition of road with projection in Google Map, from smartphone linear accelerometer and gyroscope.

05. Implementation of **UNet++: A Nested U-Net Architecture for Medical Image Segmentation, introduced by Z. Zhou, M. M. R. Siddiquee, N. Tajbakhsh, and J. Liang arXiv:1807.10165v1 [cs.CV] 18 Jul 2018,** on KITS 2019 Kidney and Kidney Tumor Segmentation Challenge**.**

06. Feature Engineering and applying tree-based data mining techniques "Human Activity Recognition from Continuous Ambient Sensor" dataset available at University of California Irvine Machine Learning Repository. Based on this project outcome a Conference paper has been submitted and currently under review.

07. Web and Backend system development for Sewage Treatment Plant Monitoring of North South University.

08. Full Stack separate Android and Web Application development for Coastal Disaster Vulnerability Data Collection of Bangladesh.

09. Crops yield prediction using Machine Learning algorithms based on obtained dataset from Bangladesh Bureau of Statistics and Information Division.

10. Conference Paper at IEMCON 2017, Vancouver, Canada at University of British Columbia, entitled "An Advanced Application to Decrease Household Power Consumption and Save Energy Detecting the Weather Condition."

11. Front End development of Android Mobile Application for **Doctorbaari,** https://doctorbaari.com.

12. An IoT based device to calculate energy consumption and sending data to server automatically.

13. Restful API based Weather Information Collection Web Application based on: Java Maven Framework.

14. Bus Ticket Booking System based on: Java Maven Framework.

15. Ekota- The social defender (A social platform to share the critical information of a society).

16. IoT based online Water level indication and automation system for disaster management and industrial usage.

Awards and Achievements

1. Champion of Senior Design Capstone Thesis Project Showcasing "North South University Innovation Challenge Season 8", with the project "A Complete Road Health Monitoring System for Bangladesh".
2. 100% waiver recipient based on Academic Performance at North South University.
3. 2nd Runner of Up IEEE Day Hackathon, 2017.
4. 2nd Runner Up of NSU Intra University Line Follower Robot Competition Summer 2017.
5. Board Scholarship (General Category) in Higher Secondary School Certificate Examination, 2015.
6. Board Scholarship (Merit Category) in Secondary School Certificate Examination, 2013.
7. Various achievements in scientific project development, extempore speech and Math and Biology Olympiad competitions during Secondary and Higher Secondary School.