TAOSEEF ISHTIAK

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Career Objective

As a recent award-winning graduate, completing B.S. in Computer Science and Engineering, I am currently seeking an excellent institution/team to build my career in machine learning/full-stack software development with a view to learning deeper knowledge in these domains through building advanced web/mobile applications. I am fond of learning and working in the domains of Algorithms, Computer Vision, Machine Learning, and Data Mining related developments.

Technical Skills

Development Expertise
Statistical Machine Learning and Computer Vision-based model architecture.
Back-End/Full-stack web development.

Programming and Query Languages	**Frameworks, Libraries and Tools**
Python, Java, PHP, JavaScript, C++, SQL, MongoDB	OpenCV, TensorFlow, PyTorch, Tableau, Laravel, Node.js with Express,.

Utilities	**Other IT Expertise**
Git, Anaconda, Google Colab	MS Office, Adobe Illustrator, Adobe Photoshop

Language and Communication
Fluent in Reading, Speaking, and Writing in English and Bengali

Interests
Algorithms, Computer Vision, Machine Learning, Data Mining, Reinforcement Learning and Software Engineering.

Hobby
Traveling, Reading Books.

Work Experience

January, 2020 – Present	**Lab Instructor | Department of ECE, North South University.**
December, 2017 – Present	**Research Assistant | Department of ECE, North South University.**
January, 2019 – December, 2019	**Teaching Assistant at North South University for the courses: Java Programming Language, Data Structure, and Design and Implementation of Algorithms.**
September, 2019 - Present	**Machine Learning workshop instructor of IEEE NSU Student Branch.**
May, 2018 – Present	**Member of R&D, NSU ACM Students Chapter.**
October, 2018 – November, 2019	**Sub-Executive NSU ACM Students Chapter- Team: Logistics and Administration.**
March, 2017 – November, 2018	**Front end developer at Doctorbaari . (https://doctorbaari.com).**

Education

2016 - 2019	**B.S. Computer Science and Engineering	North South University**
	• **CGPA 3.79.**
	• Recipient of **Magna Cum Laude Award** for academic performance.
	• Awarded the **"Champion of Innovation Challenge Season- 8"** for best undergraduate Senior Design Capstone and thesis project.
2013 - 2015	**Higher Secondary School Certificate	Notre Dame College, Dhaka.**
	• **GPA 5.00**
2013	**Secondary School Certificate	Ideal School and College**.
	• **GPA 5.00**

Selected Projects

01. Road State Classification with customized **CNN** and modified **Inception-v4** network.

02. Pothole Detection system with **Semantic Image Segmentation model: YOLACT**, and **Data Mining techniques**.

03. Tree-based feature selection for improving training accuracy on Human Activity Recognition; with **Extra-Tree Classifier and Random Forest.**

04. Statistical Machine Learning for dimensionality reduction **(Backward Elimination)**, Full Stack Android and Web Application with **Laravel** development for Coastal Disaster Vulnerability Data Collection of Bangladesh.

05. "Groupee"- a web application built with **Node.js and Express** to maintain team management and group tasks.

06. Web and Backend system development for Sewage Treatment Plant Monitoring of North South University: with **PHP and Chart.js**.

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

08. An IoT based device to calculate electricity consumption with respect to weather information using REST API and sending data to server automatically; desktop application built with **JavaFX Maven Framework**.

09. Bus Ticket Booking System based on: JavaFX Maven Framework.

10. Ekota- The social defender: with PHP.

11. IoT-based online Environment Data Logger and automatic alarm system for disaster management and industrial usage.

Awards and Achievements

1. **Champion in North South University Innovation Challenge Season 8: Senior Design Capstone Thesis Project Showcasing.**
   Project: "A Complete Road Health Monitoring System for Bangladesh".

2. **Merit-based Waiver Awardee.**
   100% tuition waiver recipient based on Academic Performance at North South University.

3. **2nd Runner of Up IEEE Day Hackathon, 2017.**

   Project: "IoT-based An advanced application to decrease household electricity consumption based on weather information."

4. **2nd Runner Up of NSU Intra University Line Follower Robot Competition Summer 2017.**

5. **Board Scholarship (General Category) Awardee.**

   Higher Secondary School Certificate Examination, 2015.

6. **Board Scholarship (Talent-pool Category)**

   Secondary School Certificate Examination, 2013.

7. Various achievements in scientific project development, extempore speech; Math, and Biology Olympiad competitions during Secondary and Higher Secondary School.