

Maruf Hassan

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Education

International Islamic University Chittagong

Chittagong, Bangladesh

B.SC. IN COMPUTER SCIENCE AND ENGINEERING

Passing Year: Nov, 2018

- Research Interests
 - Data Science · Machine Learning · Deep Learning · Natural Language Processing.
- Programming
 - Solved 800+ programming problems on Leetcode (570+), UVA (175+) online judges, Hackerrank etc.
 - Participated in 65+ programming contest at several online judges.

Experience

Asian University for Women ·

Chittagong, Bangladesh

JUNIOR INSTRUCTOR

Feb. 2021 - Present

- Prepare and deliver lectures, and conduct lab classes.
- Prepare quizzes, problem sets, question papers, and grade answer scripts.

Nippon System Create Co., Ltd. ·

Tokyo, Japan

SOFTWARE ENGINEERING TRAINEE

Nov. 2019 - Jan. 2021

- Maintain large scale legacy software for medical industry in japan.
- Develop API to integrate AI based solutions to the system.
- Technology: VB.NET, Java, Spring, SQL Server

International Islamic University Chittagong

Chittagong, Bangladesh

TEACHING ASSISTANT

Jul. 2018 - Oct. 2018

- Courses
 - Computer Programming I Lab
 - Object Oriented Programming I Sessional
 - Computer Algorithms Sessional
 - Competitive Programming I
 - Numerical Methods Sessional

Research

1) **Maruf Hassan**, Md Sakib Bin Alam, Tanveer Ahsan. *Emotion Detection from text using skip-thought vectors*. International Conference on Innovations in Science, Engineering and Technology 2018 (ICISSET). DOI: 10.1109/ICISSET.2018.8745615 **[Best Paper Award]**

2) Md Sakib Bin Alam, Muhammed J. A. Patwary, and **Maruf Hassan**. "Bagging Ensemble Classifier for Birth Mode Prediction: A Case Study of Bangladesh" In 2021 International Conference on Information and Communication Technology for Sustainable Development (ICT4SD). IEEE, 2021. **[Accepted]**

Projects

Bornomala-AI

GROUP PROJECT – 3 MEMBERS · WEB APPLICATION · PYTHON, FLASK

- An experimental app for web that performs real-time bangla vowel handwritten character recognition captured using web canvas.

House Prices - Advanced Regression Techniques

INDIVIDUAL · PYTHON (SKLEARN, TENSORFLOW) · KAGGLE COMPETITION

- With 79 explanatory variables, predict the final price of each home.
- Score: 0.12667 (Top 24%)

Crime Spot Mapper

GROUP PROJECT – 2 MEMBERS · ANDROID APPLICATION · JAVA

- People can mark crime spots, police can detect those marked spots and analyze. Nearest police stations can be found.

Fix My Area

GROUP PROJECT – 4 MEMBERS · WEB & ANDROID APPLICATION · PHP, JAVASCRIPT, BOOTSTRAP, HTML, CSS

- Aims to make a clean and green city. Citizen of a city can easily report their area's problems to the authority through this app.
- Awarded 1st prize in Stellar Hackathon'17. Smart City Category

Technical Skills

Programming	Java, Python, C#, VB, PHP, SQL, HTML, CSS, Javascript
ML Tools	pandas, numpy, matplotlib, sklearn, tensorflow, keras
Programming IDEs	Visual Studio, IntelliJ IDEA, Eclipse, PHP Storm, PyCharm
Framework	Core Java, VB.NET, Android Development Toolkit
Other Tools	Git, Github, MatLab, Latex, Jupyter Notebook

Training/Courses

Machine Learning & Deep Learning

BJIT ACADEMY

3 months

- Tools used: Python, sklearn, pandas, numpy, tensorflow, keras, pytorch

Machine Learning

STANFORD UNIVERSITY · COURSERA

11 Weeks

- Tools used: Octave, Matlab

Applied Data Science with Python

UNIVERSITY OF MICHIGAN · COURSERA

20 Weeks

- 5-courses specialization
- Tools used: python toolkits such as pandas, matplotlib, scikit-learn, nltk, and networkx

Algorithms, Part I, Part II · Java

PRINCETON UNIVERSITY · COURSERA

12 Weeks

- Achieved 100/100 in all the 10 programming assignments

Data Structures and Algorithms Specialization · Java

UNIVERSITY OF CALIFORNIA SAN DIEGO · COURSERA

20 Weeks

- 6-Courses Specialization. (completed 4 courses)

Object Oriented Programming in Java Specialization

DUKE UNIVERSITY · UNIVERSITY OF CALIFORNIA SAN DIEGO · COURSERA ·

16 Weeks

- 4-Courses Specialization. (completed 3 courses)

Certification

National Mobile Application Trainer and Innovative Application Development Program

ICT DIVISION OF BANGLADESH GOVERNMENT · JAVA · ANDROID

3 months

Web Application Development – PHP

BASIS INSTITUTE OF TECHNOLOGY & MANAGEMENT

3 months

Organized by ICT Division of Bangladesh Government

Volunteer Experience

Community Mentor

COURSERA

Jan. 2018 - Oct. 2019

- Mentor for the Course "Java Programming: Solving Problems with Software" by Duke University