Ashna Nawar Ahmed

Lecturer

Address: House 14/7, 14/8, Tajmahal Road Block C, Mohammadpur, Dhaka 1207, Bangladesh

+880 1710812206
ashna.nawar.ahmed@gmail.com
LinkedIn: https://www.linkedin.com/in/ashna-nawar-ahmed/
GitHub: https://github.com/Ashna-Nawar-Ahmed

Experience

Lecturer / Ahsanullah University of Science and Technology
November 2021 - PRESENT, Dhaka, Bangladesh

- Fosters a supportive learning environment, helping students develop advanced-level and subject-specific skills.
- Provides guidance and support to students on academic matters.
- Facilitates group projects and activities to enhance the learning experience.

Education

B. Sc. in Computer Science and Engineering / Ahsanullah University of Science and Technology
November 2016 - August 2021

CGPA: **3.871/4.00** (**1st position** out of 74 students)

Dean's List of Honor Spring 2020: 1st Position

Higher Secondary Certificate / Adamjee Cantonment College
2014 - 2016

GPA: 5.00/5.00

Secondary School Certificate / Mohammadpur Preparatory Higher Secondary School
2006 - 2014

GPA: 5.00/5.00

Publication

Decentralizing and Optimizing Nation-Wide Employee Allocation While Simultaneously Maximizing Employee Satisfaction
https://doi.org/10.1007/978-3-031-22039-5_17

- Formulated a multi-objective optimization to simultaneously maximize two conflicting objectives: nationwide employee dispersion and employee satisfaction.
- Dissatisfied employees in rural areas have a high turnover rate. However, allocating employees solely based on their satisfaction creates centralized allocation around the capital and other developed cities.
- Multi-layer perceptron was used to model employee satisfaction in certain areas, and we developed our own dispersion function to calculate how well dispersed the employees are.
- Genetic algorithm to find optimal allocations that maximize both objectives.

Skills

Programming Languages: Java, C, C#, JavaScript, Python, Octave, Matlab, PL/SQL

Markup Languages: HTML, CSS

Machine Learning Frameworks: PyTorch, Scikit-learn

Software Development Frameworks: ASP.NET MVC, Bootstrap

Achievements

- Dean's List of Honor Spring 2020: **1st** Position for academic performance during undergraduate studies
- 1st Runners-Up: Intra-AUST Project Showcase Spring 2018 (LFR)
- Top 40 in National Girls' Programming Contest 2018

Projects

- [Colour Switch Game:](#) iGraphics Project

  Language: **C**

  A game in which players need to pass a ball that changes color through different obstacles by matching colors. Inspired by the existing android game.

- [Matchmaking Software:](#) Java Project

  Language: **Java (Java Swing)**

  A personal matchmaking platform where individuals could get suggested candidates according to their likes and dislikes.

- [Memory Lane App:](#) Android App

  Language: **Java**

  An Android app that could keep notes, set alarms and do voice recording.

- [Open Credit System:](#) Desktop Project

  Language: **Java, SQL**

  A database software which is capable of keeping records of students' course information, their grades, and which courses they could avail in the current semester they are in.

- [Open Credit System:](#) Bootstrap Website

  Language: **PHP, HTML;** Framework: **Bootstrap**

  A bootstrap website which is capable of keeping records of students' course information, their grades, and which courses they could avail in the current semester they are in.

- [Information Pool System:](#) ASP.NET MVC Website

  Language: **C#;** Framework: **ASP.NET MVC, SQL**

  An online-based website that aspires to showcase news from various sites in one place.

References

- [Dr. Md Shahriar Mahbub](#): shahriar.cse@aust.edu

  Cell Phone: +880 1748567161

- [Faisal Muhammad Shah](#): faisal.cse@aust.edu

  Cell Phone: +880 1911090363