Tauseef Ibne Mamun

tmamun@mtu.edu
+1 (857)-574-9931
https://tmamun.netlify.app

407 Shelden Avenue, Apt 9,
Houghton, Michigan, 49931

SUMMARY

Ph.D. student with specialized training in both *human-computer interaction* and *behavioral psychology*. Have a *strong programming* background. Experience in human factors analysis (*qualitative* and *quantitative*) and executing *usability* studies mainly in software and rail warning systems.

Research Tools/Methods
- Usability Evaluation (in-vehicular warning system, explainable AI system).
- In-field semi-structured user/driver interview. Design recommendation for chatbots in healthcare.
- Autonomous driving behavior analysis in the driving simulator.
- Data interpretation using advanced statistical modeling.

EDUCATION

Michigan Technological University | Houghton, MI
Ph.D. Applied Cognitive Science and Human Factors   Expected 2023

Michigan Technological University | Houghton, MI
Artificial Intelligence in Healthcare Certificate   2021

Michigan Technological University | Houghton, MI
MS Applied Cognitive Science and Human Factors   2019 – 2021

Ahsanullah University of Science & Technology | Dhaka, Bangladesh
BS Computer Science & Engineering   2011 – 2015

EXPERIENCES

Michigan Technological University, Cognitive and Learning Sciences | Houghton, MI
Research Assistant   2019 – Present
Tasks:
- Social media data analysis (**qualitative** data) and **human behavior analysis** in autonomous driving while giving user-centric explanations from social media for **human-AI collaboration**.
- Designing **novel explanation methods** for the **human-AI team**.
- Developing **computational models** for different scenarios, e.g., pandemic human travel patterns.
- **Behavioral analysis** of drivers in rail crossings through **statistical models** and semi-structured **interviews**; also determining the **usability** of new systems in rail crossings.
  - ❖ Working/Worked with **Defense Advanced Research Projects Agency** and **Federal Railroad Administration** on different research projects.

Mighty Egg Technologies | Canada/Bangladesh
Programmer Analyst   2015 – 2018
Tasks:
- Database Design & API development.
- Web and Mobile App Development.

- Software deployment in Amazon Web Service, Digital Ocean, Heroku.

Programming Expertise

R, Python, C, C++, Java, PHP, Ruby, PEBL

Git: GitHub (https://github.com/tm012)

FEATURED LEADERSHIP ROLES
- Vice President at Ahsanullah University of Science & Technology's Computer Science & Engineering Society   2014 – 2015
- Vice President at Bangladeshi Student Association at Michigan Technological University   2020 – 2021

INTERESTS

Photography | App Development | Video and Photo Editing