

Tauseef Ibne Mamun

tmamun@mtu.edu
+1 (857)-574-9931
<https://tm-cv-p.herokuapp.com>

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

SUMMARY

PhD 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.
- Autonomous driving behavior analysis in driving simulator.
- Data interpretation using advanced statistical modeling.

EDUCATION

Michigan Technological University Houghton, MI	
PhD Applied Cognitive Science and Human Factors	Expected May 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 social media's user centric explanations for **human-AI collaboration**.
- Designing **novel explanation methods** for human-AI team.
- Developing **computational models** for different scenarios, e.g., pandemic human travel pattern.
- **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	
Programmer Analyst	2015 – 2019

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) (<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