MD NAIMUL HOQUE

Website: https://naimulh0que.github.io/

naimul.hoque705@gmail.com Github: github.com/tonmoycsedu

Research Interest

Human-Computer Interaction, Visual Analytics, and Human-Centered Al.

EDUCATION

University of Maryland, College Park, MD, USA

Fall 2020 -

Ph.D. in Information Sciences

Human-Computer Interaction Lab (HCIL), advisor: Niklas Elmqvist.

Stony Brook University, NY, USA

Fall 2018-Summer 2020

M.S. in Computer Science, CGPA: 3.9, advisor: Klaus Mueller.

University of Dhaka, Dhaka, Bangladesh

Jan 2011 - Jan 2015

B.Sc. in Computer Science and Engineering. CGPA: 3.60.

PUBLICATIONS

- Md Naimul Hoque, Bhavya Ghai, Niklas Elmqvist. DramatVis Personae: Visual Text Analytics for Guiding Character Development and Avoiding Stereotypes in Creative Storytelling. (In submission)
- Md Naimul Hoque, Klaus Mueller. Outcome-Explorer: A Causality Guided Interactive Visual Interface for Interpretable Algorithmic Decision Making. *IEEE Transaction on Visualization and Computer Graphics*. 2021. (preprint)
- Bhavya Ghai, Md Naimul Hoque, Klaus Mueller. WordBias: An Interactive Visual Tool for Exploring
 Intersectional Social Biases Encoded in Word Embeddings. Extended Abstracts of the CHI Conference on
 Human Factors in Computing Systems. 2021. (pdf) (github)
- Md Naimul Hoque, Nazmus Saquib, Syed Masum Billah, and Klaus Mueller. Toward Interactively
 Balancing the Screen Time of Actors Based on Observable Phenotypic Traits in Live Telecast. ACM
 Conference on Computer-Supported Cooperative Work and Social computing (CSCW). 2020. (pdf)
- Md Naimul Hoque, Choudhury Farhan Ahmed, Nicolas Lachiche., Carson K. Leung, Hao Zhang. Reframing in Clustering. IEEE 28th International Conference on Tools with Artificial Intelligence (ICTAI). 2016. (pdf)
- Md Naimul Hoque, Darius Coelho, Klaus Mueller. Examining the Visualization Practices of Data Scientists on Kaggle, *InfoVis Poster*, 2019.
- Md Mehedi Hassan, Ashik Adnan, Asif M. Saleheen, **Md Naimul Hoque**. Understanding the Patterns of Crime Reports in a Popular Bangladeshi Newspaper. *Companion of ACM CSCW 2018*. (pdf)
- Md Naimul Hoque, Rawshan E. Fatima, Manash Mandal, Nazmus Saquib. 2017. Evaluating gender portrayal in Bangladeshi TV. Machine Learning for the Developing World, NIPS 2017 Workshop. (pdf)

Research Intern Summer 2021

Bosch Research, advisor: Liang Guo

Designed an interactive interface to interpret visual concepts learned by a pixelwise encoder. We used VQ-VAE to learn a discrete latent space. The interface also allows knowledge injection to the original model, gathered from the interface, for better performance.

Graduate Teaching Assistant

Fall 2020 - Fall 2021

University of Maryland

Courses: Introduction to Data Visualization; Introduction to Data Science.

Graduate Research Assistant

Summer 2019-Summer 2020

Stony brook University

Projects: Visual causal model for transparent decision making, Collaborative sense-making through causal reasoning; Interactive visual tool for balancing visual biases in video streams.

Graduate Teaching Assistant

Fall 2018 - Spring 2019

Stony Brook University

Courses: Data Structure; Probability and Statistics; Machine Learning (Undergraduate).

Lecturer Jan 2017 – July 2018

Eastern University, Bangladesh

Courses: Introduction to Programming; Advanced Programming Lab; Data Structure.

Software Engineer

Aug 2016 - Dec 2016

Enosis Solutions, Bangladesh

Project: Health analytics platform to visualize personalized health data. I worked on the frontend team, which was responsible for building the frontend of the platform using AngularJS and google charts.

AWARDS

Chairman's Fellowship (Fall 2018 – Spring 2019), Stony Brook University. Organizing Excellence, 2017, Eastern University, Bangladesh.