Akhter Al Amin

2nd Year Ph.D. Student

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Rochester, NY.

Education

Ph.D. in Computing & Information Sciences **CGPA: 3.96/4.00**
Rochester Institute of Technology *August 2019 – May 2024 (expected)*
Courses: Research Methods in Human Computer Interaction, Qualitative Research Methods in Computing and Information Sciences, Quantitative Foundation

B.Sc. in Computer Science and Engineering **CGPA: 3.27/4.00**
Bangladesh University of Engineering and Technology *May 2010 – August 2015*
Courses: Object Oriented Programming, Data Structure and Algorithm, Computer Architecture

Research Interests

Human Computer Interaction, Accessibility, Natural Language Processing, Computational Linguistics.

Experience

Graduate Research Assistant August 2019 – Present
Center for Accessibility and Inclusion Research Lab), Rochester Institute of Technology *Rochester, NY*

- Investigating Deaf and Hard of Hearing users' perspective regarding caption technology and usability
- Investigating how existing caption evaluation metrics can be improved to qualify users' judgment of a caption quality.

Software Engineer Oct 2016 – Jul 2019
iPay Systems Limited. *iPay, Dhaka, Bangladesh*

- My primary responsibility was to develop front-end applications and implementing the design provided by UX designer at the application end. Furthermore, I was responsible for developing several in-house products ensuring a smooth user experience. These products were developed in a feedback-oriented setting. Here I am describing the process I would usually follow to implement such development cycle:

  To ensure salient customer experience, it was essential for a service provider to have customer data available in an organized setting. That's why I regularly conducted fieldwork after deploying a new version of the customer service application. Through this interview data, I was able to capture the benchmark achieved through each release cycle. In addition, during this fieldwork, I try to note down additional requests which I would interpret as a feature needs to be implemented in future release to improve the data presentation style.

Selected Publications

[2021] A. A. Amin, S. Hassan, M. Huenerfauth, "Caption-Occlusion Severity Judgments across Live-Television Genres from Deaf and Hard-of-Hearing Viewers", *18th International Web for All Conference (W4A'21) 2021.*

[2021] A. A. Amin, S. Hassan, M. Huenerfauth, "Effect of Occlusion on Deaf and Hard of Hearing Users' Perception of Captioned Video Quality", *23rd International Conference on Human-Computer Interaction (HCII) 2021.*

[2021] A. A. Amin, A. Glasser, R. Kushalnagar, C. Vogler, M. Huenerfauth, "Preferences of Deaf or Hard of Hearing Users for Live-TV Caption Appearance", *23rd International Conference on Human-Computer Interaction (HCII) 2021.*

[2021] [Poster] A. A. Amin, M. Huenerfauth, "Perspectives of Deaf and Hard-of-Hearing Viewers on Live-TV Caption Quality", *iSchool Conference (iConference) 2021*

[More] Google Scholar.

Technical Skills

Languages: Python, C, MATLAB, C++, Java
Machine Learning: NLP, Numpy, Sklearn, Matplotlib, Jupyter Notebook, Google Colab
Statistics Tools: R, Python

Certifications

Natural Language Processing with Classification and Vector Spaces Coursera
- Machine Translation, Word Embeddings, Locality-Sensitive Hashing, Sentiment Analysis, Vector Space Models

Natural Language Processing with Probabilistic Models Coursera
- Word2vec, Parts-of-Speech, Tagging, N-gram, Language Models, Autocorrect

Awards & Grants

Best Poster Nominee. iSchool Conference 2021

Activities

Reviewer. CHI 2021 Late-Breaking Work