Md. Muhtasim Rahman

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LinkedIn | GitHub | Google Scholar

Research Interests

Machine Learning | Deep Learning | Natural Language Processing | Audio Processing

Education

Texas A&M University — College Station, Texas
Ph.D. in Computer Science; Supervisor: Dr. Ruihong Huang — Aug 2021–Current
Current CGPA: 4.0/4.0

Bangladesh University of Engineering and Technology — Dhaka, Bangladesh
B.Sc. in Electrical and Electronic Engineering — Feb 2015–April 2019
Major: Communication and Signal Processing

Work Experience

Texas A&M University — College Station, Texas
Research Assistant, Natural Language Processing Lab — Aug 2021–Current

Brac University — Dhaka, Bangladesh
Lecturer, Department of Electrical and Electronic Engineering — Aug 2019 - July 2021

Research Experience

Dialog Act Classification for artificially intelligent (AI) teammates — Aug 2021–Current

Supervisor: Dr. Ruihong Huang
- The identification of dialog acts (DA) ease the interpretation of utterances and help in understanding a conversation. To identify DAs in real-time, we are developing a DA classifier using audio recordings and corresponding ASR generated noisy transcripts.

Search & **Rescue with Drone-Embedded Sound Source Localization** — Nov 2018–Dec 2019

Supervisor: Dr. Mohammad Ariful Haque
- Primary objective of this research is developing algorithms capable of localizing a sound source based on audio recordings made with an 8-channel microphone array embedded in an unmanned aerial vehicle (UAV).

Task Specific Bangla Voice Recognizing System for Personal Assistance — Jun 2018–Apr 2019

Supervisor: Dr. Mohammad Ariful Haque
- The purpose of this research is to design a Bangla voice command controlled system capable of performing trivial tasks to assist users. Core parts of the research are data collection, CNN based Bangla speech recognition model development, intent & entity recognition using statistical machine learning model and developing an integrated system.

Publications

1. **M. M. M. Miah**, R. J. Tazim, F. T. Johora, M. I. Al Imran, S. S. Surma, F. Islam, R. Shabab, C. Shahnaz and A. Subhana, “Non-Invasive Bilirubin Level Quantification and Jaundice Detection by Sclera Image Processing,” 2019 IEEE Global Humanitarian Technology Conference (GHTC), Seattle, WA, USA, 2019, pp. 1-7

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