MD ISTIAQ ANSARI

Problem Solving Enthusiast & Proud Geek

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EXPERIENCE

Machine Learning Engineer

REVE Systems Ltd.

Aug 2021 – Ongoing | Dhaka, Bangladesh

- Leading the algorithm and dataset development for **Spell Grammar Error Detection and Correction for Bangla** project

Research Assistant

mHealthLab, BME, BUET

June 2019 – Aug 2021 | Dhaka, Bangladesh

- Development of a Novel Learnable-Spectrogram System for End-to-End Audio Signal Classification Ansari and Hasan, 2022.
- Heart Sound Abnormality Detection Using tConv Filterbank for Domain Invariant Classification.
- Analysis of Heart Sound Signal's Additive and Convolutional Distrotion using Fused Cepstral Features.
- ECG Arrhythmia Detection Using Residual One-Dimensional CNN

Undergraduate Projects

Bangladesh University of Engineer and Technology

Feb 2015 – Aug 2019 | Dhaka, Bangladesh

- Robust Human Authentication using Dynamic ROI Extraction from Dorsal Palm vein Images via One Shot Siamese Network
- Development of an Automatic Garbage Sorting Machine Combined With Portable Camera and Raspberry Pi using Image Recognition

PUBLICATIONS

Published

- Azam, F., Ansari, I., McLane, I., & Hasan, T. (2022). Additive and convolutional distortion, stethoscope variability, heart sound classification. *Artificial Intelligence in Medicine*.
- Humayun, A., Ghaffarzadegan, S., Ansari, I., Feng, Z., & Hasan, T. (2020). Towards domain invariant heart sound abnormality detection using learnable filterbanks. *IEEE journal of biomedical and health informatics 24 (8), 2189-2198*.

Submitted (Under Review)

- Ansari, I., & Hasan, T. (2022). *Spectnet : End-to-end audio signal classificationusing learnable spectrogram features*.

EDUCATION

B.Sc. in Electrical and Electronic Engineering

Bangladesh University of Engineering and Technology

Feb 2015 – Aug 2019

CGPA - 3.05 out of 4.00
Key Courses : Digital Signal Processing, Random Signal Processing, Communication Theory, Control Theory, Biomedical Instrumentation

RESEARCH INTERESTS

Machine Learning | Signal Processing | Image Processing | Computer Vision | NLP | Reinforcement Learning

SKILLS

Programming Contest and Problem Solving Experience with C, C++ on Codeforces and LightOj

Data Structure | Graph Theory | Dynamic Programming | String Algorithms

Deep Learning

Python | Pytorch | Keras

Hardware and Circuit Design

PSpice | Quartus | Proteus | Eagle | Arduino | Raspberry Pi

Software/Web Development

JAVA | C | Adobe Muse | AngularJS | HTML | CSS

LANGUAGES

English
Bangla
Hindi