MD MAHIR ASHHAB

Graduate Student (PhD) - Computer Science, UVA

CONTACT

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RESEARCH INTERESTS

Low Latency, Low Loss, Scalable Throughput (L4S)

L4s Enabled Media communication

Large Language Model

KV Cache Management

Edge/Cloud Computing

Cost minimization, Optimal Deployment, Maximization of QoS and QoE

AI, NLP, Deep Learning

Transfer Learning, Explainability, and Fairness

CITATIONS

Number of Publications: 5

Total Citations: 22
h-index : 03

SKILLS

C, Java, Python 7+ yrs

Deep Learning Using Pytorch 4+ yrs

EDUCATION

PhD 1st Year - Computer Science — **AUG 2024 - Present**
University of Virginia - USA

MS - Computer Science & Engineering — **JAN 2018 - MAR 2021**
University of Dhaka (CSEDU) - Dhaka, Bangladesh

Passed with **CGPA 3.52 out of 4.00**.

B.Sc. - Computer Science & Engineering — **JAN 2014 - DEC 2017**
University of Dhaka (CSEDU) - Dhaka, Bangladesh

Passed with **CGPA 3.60 out of 4.00**.

WORK EXPERIENCE

Lecturer (On Study Leave) — **JUN 2022 - July 2024**
East West University, Dhaka Bangladesh

Frequently taken Courses: Computer Networks, Operating Systems, Data Communications, Statistics for Data Science etc.

Lecturer — **MAY 2018 - MAY 2022**
Eastern University, Ashulia, Bangladesh

Frequently taken courses: Operating Systems, Computer Networks, Algorithms and Data Structures, Distributed systems etc.

RESEARCH EXPERIENCE

B.Sc Thesis — **DEC 2017**
Field: Cloud Computing

A hueristic algorithm to determine delay aware task assignment in Mobile Edge Cloud and Internet Cloud.

M.S Thesis — **JAN 2019-DEC 2020**
Field: Computer Networks and Deep Reinforcement Learning

Leveraging Deep Q Learning for deploying optimized resources in Network function virtualization.

Independent Research Works — **JUN 2021-JUL 2024**

Fields: Pattern Recognition, Machine learning, Computer Networks, E-commerce, Robotics, Natural Language Processing, Interfacing, Specialized Social Media etc.

RECENT PUBLICATIONS

An extensive photographic dataset to classify laptop components for automating e-waste management by recycling old laptops — **Elsevier**
Status: Accepted and Published

Data in Brief: Volume 57

A Comparative Analysis of Deep Learning Approaches in Bangla Document Categorization — **ICCIT 2023**
Status: Accepted and Published

2023 26^{th} International Conference on Computer and Information Technology (ICCIT) (ISBN: 979-8-3503-5901-5), 2023

Detecting Pneumonia from X-Ray Images of Chest using Deep Convolutional Neural Network — **IBDAP 2023**
Status: Accepted and Published

4^{th} International Conference on Big Data Analytics and Practices (IBDAP) (ISBN: 979-8-3503-0019-2), 2023

An Empirical Study to Analyze the Impact of Instagram on Students' Academic Results — **TENSYMP 2020**
Status: Accepted and Published

IEEE Region 10 Symposium (TENSYMP) (ISSN: 2642-6102) , 2020

Execution Delay-aware Task Assignment in Mobile Edge Cloud and Internet Cloud — **STI 2019**
Status: Accepted and Published

International Conference on Sustainable Technologies for Industry 4.0 (STI) (ISBN: 978-1-7281-6099-3) , 2019

RECENT PROJECTS

Lookahead Caching Policy for KV Cache Management — **2024**
Tool: SgLang, Python

A comprehensive study of finding the effectiveness of using Lookahead caching policy over Least recently used caching policy for LLM inference job

Neural Abstractive Text Summerization with Sequence to Sequence Model — **2024**
Tool: BiLSTM, Python, Tensorflow

A comprehensive study of finding the effectiveness of employing sequence to sequence models for generating abstractive summary of texts and articles.

Human-in-the loop annotation — **2023**
Tool: BERT, Python, Pytorch

A comprehensive study of finding the effectiveness of Human annotation on classification of git-hub comments by the large language model (BERT)

Sentiment Analysis on Bangla Text — **2023**
Tool: BERT, Python, Pytorch

An extensive research of using large language model for sentiment analysis on Bangla Comments in Social Media.

Laptop Components Classification — **2023**
Tool: Python,CNN models, Pytorch

A data driven research for creating an effective dataset of different laptop components for facilitating Automatic E-waste management systems.