Munshi Touibur Rahman

Dhaka,1216 touibmahmud33@gmail.com 01790905763 Touib Mahmud Touib Mahmud

Objective

A highly driven Computer Science graduate with expertise in artificial intelligence, machine learning, data science, and cybersecurity. Passionate about applying advanced technologies to solve real-world challenges in healthcare, industrial optimization, and society at large. Committed to continuous learning and innovation, with a strong focus on research, automation, and AI-driven solutions that create meaningful impact.

Education

Bangladesh University of Business & Technology *Jan 2021 – Dec 2024*
BSC in Computer Science

- CGPA: 3.42/4.0
- **Coursework:** :Data Structures & Algorithms, Database Management, Linear Algebra, Calculus, Artificial Intelligence, Internet of Things, Machine Learning, Neural Networks,Project Management, Pattern Recognition, knowledge Engineering & Statistics

Government Science College *Jul 2017 – June 2019*
H.S.C in Science

- GPA: 4.83/5.0

Experience

Research Assistant *Jun 2024 – Feb 2024*
Bangladesh University Of Business & Technology

- Advance Research in Machine Learning and Deep Learning RA Credential id:BUBT-CSE-900-25

Trainner *July 2024 – Dec 2024*
AI Community BUBT

- Machine Learning and Deep Learning Trainer Credential id:BUBT-CSE-854-02-2025

Publications

A Hybrid Architecture with Separable Convolutions and Attention for Lung and Colon Cancer Detection(In Review) Mar 2025

Md. Darun Nayeem, Md. Emdadul Hasan Shishir, ***Munshi Touibur Rahman***, Zeeshan Chowdhury Juwel, Sagor Sutradhar, Md. Saifur Rahman, A B M Shawkat Ali

Projects

Automated Tuberculosis Detection and Segmentation Using Lightweight CNN and U-Net Architectures *github.com/name/repo*

- Developed a custom lightweight CNN model achieving 99% accuracy for binary classification of tuberculosis from chest X-rays, outperforming pre-trained models like MobileNetV2, ResNet50, and VGG16.
- Implemented a U-Net-based segmentation model with 96% accuracy for precise localization of tuberculosis-affected areas, enhancing diagnostic capabilities.

Data Augmentation Using DC GAN *github.com/name/repo*

- Developed a data augmentation pipeline using Deep Convolutional Generative Adversarial Networks (DCGAN) to enhance dataset diversity.
- Improved model generalization by generating high-quality synthetic data, reducing overfitting in deep learning applications.

NeXt Word Prediction Using RNN *github.com/name/repo*

- Implemented a Recurrent Neural Network (RNN) based model for next-word prediction, leveraging sequen-

tial text data.

- Utilized TensorFlow, Keras, and NLTK with LSTM-based architectures to enhance natural language processing and improve predictive accuracy.

Technologies

Languages: Python,JavaScript,C,C++,SQL

Machine Learning: TensorFlow, Scikit-learn, Data Preprocessing, Pytorch, Feature Engineering, Statistical Analysis

Tools: GoogleColab,kaggle,Wireshark, Metasploit,Microsoft Office Suite (Word,Excel, PowerPoint)

ExtraCurriculum Activities

AI Community BUBT *Sep 2024 – Present*
Co-Founder & Community Manager

- Established the AI community, developed proposals, and structured operational guidelines.
- Recruited and mentored executive members to ensure smooth community operations.
- Lead the event management department, overseeing planning and execution.
- Successfully organized key initiatives, including:
  - AI Battle 2024 competition.
  - Two seminars on AI advancements and research.
  - A career tour and an industry visit to bridge academia and industry.

Shushaoner Jonno Nagorik,Rajbari *Sep 2020 – Sep 2021*
Communication Secretary
Chetona Parishod,GSC *Jan 2018 – Apr 2029*
Communication Secretary

Certifications

- **Trainer Of Machine Learning and Deep Learning** *github.com/name/repo*
  Credential id:BUBT-CSE-854-02-2025