Mohammed Sazzad Yousuf Sourab

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Ph.D Applicant for Fall 2024

EDUCATION

Chittagong University of Engineering & Technology (CUET), Chittagong, Bangladesh.
Bachelor of Science (B.Sc) in Electronics and Telecommunication Engineering   (Feb '17- Apr '22)
CGPA: 3.71 out of 4.00 (3.94 on last 60 Credit)
Masters of Science (M.Sc) in Electronics and Telecommunication Engineering   (Aug '22- Present)
CGPA: 3.92 out of 4.00 (18 Credit Completed) (Ongoing)

STANDARDIZED TEST SCORES

- **IELTS:** 7.5 (Listening: **8** , Reading: **8**, Speaking: **7**, Writing: **6.5**)

RESEARCH INTERESTS

AI | Deep Learning | Machine Learning | Computer Vision | Image Processing

RESEARCH EXPERIENCE

- **B.Sc. Thesis: "A Comparative Analysis of Hybrid Deep Learning Models for Diagnosis of Pneumonia from Chest Radiograms"**, Supervised by Md. Ahasan Kabir, Assistant Professor, Department of ETE,CUET.
  - ➢ Diagnosed Pneumonia Chest Radiogram images from Mendeley Dataset V2 using both traditional CNN and Depthwise-Separable CNN models and extracted high level features and fed into different machine learning algorithms and then comparison is shown.
  - ➢ **Findings:** Reduced parameters using DS-CNN than traditional CNN | High level extracted features in ML models give better accuracy than Sigmoid classifier in CNN| Random Forest Classifier works better than other ML classifiers used

PUBLICATIONS

- ❑ **Journal Articles**
  1. Sourab, Sazzad Yousuf, and Md Ahsan Kabir. "A comparison of hybrid deep learning models for pneumonia diagnosis from chest radiograms." Sensors International (2022): 100167.

- ❑ **Conference Papers**
  1. S. Y. Sourab, H. R. Shuvo, R. Hasan and T. Masruf, "Diagnosis of COVID-19 from Chest X-Ray Images Using Convolutional Neural Networking with K-Fold Cross Validation," 2021 IEEE International Power and Renewable Energy Conference (IPRECON), 2021, pp. 1-5, doi: 10.1109/IPRECON52453.2021.9640744.

PROFESSIONAL EXPERIENCE

- **Daffodil International University**, Dhaka, Bangladesh
  Lecturer, Department of Electronics and Telecommunication Engineering
  August 2022 –Present
- **Huawei Technologies Ltd. Bangladesh**
  Solution Architect (Cloud)
  June 2022 – August 2022

COURSES DESIGNED AND TAUGHT

- **Numerical Analysis** – Fall'22, Spring'23, Fall'23
- **Renewable Energy Technology** -- Fall'22
- **Basic Electrical & Electronics Engineering** – Fall'22
- **Optical Fiber Communication** – Spring'23
- **Signal and Communication System Engineering** – Spring'23
- **Digital Signal Processing** – Spring '23, Fall '23
- **Electrical Circuit** – Fall'23
- **Electronic Device & Circuit** – Fall'23
- **Engineering Mathematics** – Fall'23
- **Computer Networks** – Spring'23

RELEVANT COURSEWORK

- **Undergraduate Courses:** Basic EEE | Basic EEE Laboratory | Digital Communication Laboratory | Digital Signal Processing Laboratory | Electronic Device and Circuits Laboratory | Engineering Mathematics | Numerical Analysis | Numerical Analysis Laboratory | Renewable Energy Technology | Signals and Communication Systems Laboratory

UNDERGRADUATE PROJECTS

- Automatic Street Light Detecting Vehicle Movement
- Automatic License Plate Detection using MSER algorithm and Stroke Width Variation
- Ecommerce Website with Database connected
- PSK Modulation Circuit
- Sequential Blinking light using Microcontroller
- FM Radio Transmitter and Receiver

TECHNICAL SKILLS

- **Device Simulator** – MATLAB & Simulink, Proteus, 8086 Emulator, Multisim, Ultiboard, Cadence, Git, Google Colab, WATS 2000, Cisco Packet Tracer, CST Studio
- **Programming Languages** – C/C++, Python, Assembly Language (8086), Java, JavaScript, HTML, CSS, PHP, MySQL
- **Document Preparation & Illustration** – MS Office 365, Adobe Photoshop, Adobe XD, Adobe Premiere Pro

AWARDS AND SCHOLARSHIPS

- **Government Merit Scholarship**
  Awarded by Ministry of Education, Bangladesh. 2011, 2016
- **Best Idea Award**
  Big Data & Machine Learning workshop (BDML 2020)
  Organized by Department of CSE, CUET.
- **Champion**
  Informatics Olympiad
  10th Dhaka Residential Model College National Science Fair (DRMCNSF) - 2016

- **Gold Award**
  1st International Poster Competition Achieving Sustainable Development Goals (SDGs) in Developing Countries - 2021
- **Best Motion Maker**
  13th Inter Department Debate Competition, CUET.

ACADEMIC & PRODESSIONAL TRAINING

- Total 4 days (32 hours) long training on **Digital Forensics & Magnet Axiom Tools** from Sheikh Kamal IT Incubator, Bangladesh Hi-Tech Park Authority
- Training on **CCNA Exploration-1** from IICT, CUET
- **Ethical Hacking** from Eduonix
- LinkedIn learning on **Machine Learning and AI Foundations**
- LinkedIn learning on **Neural Networks and CNN Essential Training**

LEADERSHIP AND SYNERGISTIC ACTIVITIES

- **President**
  CUET Photographic Society (CUET PS)
  March 2021 – June 2022
- **Photographic Secretary**
  CUET Debating Society (CUET DS)
  February 2021 – June 2022
- **Photographic Secretary**
  Robo-Mechatronics Association (RMA)
  January 2021 – June 2022
- **Student Ambassador**
  Bangladesh Model United Nations (BANMUN) in Association with UNYSAB (2016)

REFERENCES

- Prof. Dr. Md. Azad Hossain
  Head of the Department of Electronics & Telecommunication Engineering (ETE)
  Chittagong University of Engineering & Technology
  Contact no: 01783756981, Email: azad@cuet.ac.bd

- Prof. Dr. Mohammad Mizanur Rahman
  Department of Mechanical Engineering (ME)
  Chittagong University of Engineering & Technology
  Contact no: 01864800089, Email: mmrahman_me@cuet.ac.bd