Anowarul Faruk Shishir

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RESEARCH INTERESTS

Machine Learning, Natural Language Processing, Artificial Intelligence

EDUCATION

- **Bachelor of Science in Electronics and Communication Engineering**
  Khulna University of Engineering & Technology Jan 2019-Feb 2024
  CGPA: 3.78/4.00 (position 6th) (1 year delay due to covid)

Experience

- **Lecturer**
  Department of CSE, Bangladesh University 2025- Present

Undergraduate Thesis and Projects

Thesis Topic: Sentiment Analysis from a Bengali Dataset Using Hybrid Deep Learning and Contextualized Word Embedding Techniques.

Description: The core idea is to use contextualized Bangla Bert word embedding techniques in place of Word2vec,Glove, FastText along with CNN-BiLSTM model whose performance was compared with 8 machine learning and 2 Deep Learning models. Another feature like expressing the sentiment with relative sentiment score is added. The accuracy is 96.84

Projects:

- **Multilingual Privacy Preserving** [currently working for a publication]
  Description: This project aims to preserve user privacy during interactions with large language models, which have a tendency to inadvertently leak sensitive information. Our current focus is on the Bangla language.
- **Intelligent Information Retrieval via Question Answering**
  Description: This project explores intelligent information retrieval through question answering by leveraging knowledge graphs and graph neural networks. Our approach aims to challenge conventional models by incorporating structured semantic relationships and graph-based reasoning for improved accuracy and interpretability.
- **Accident Detection and Developing an Alert System Using Deep Learning.**
  Description: It aims to detect accident from video footage of a cctv-camera. Alert system along with gps to inform authorities about the location of the accident is also added here. This model is able to detect accident from live camera as well as footage stored in the memory.
- **Pneumonia Detection from X-ray Images with Deep Learning.**
  Description: A conventional CNN model is built to detect pneumonia accurately from chest X-rays. In addition, a pre-trained model VGG-16 is also used to classify whether the chest X-ray is normal or with pneumonia to compare the performance of CNN model.
- **Language Translator using seq2seq Model.**
  Description: It is designed for translating French to English. Here after going through several text preprocessing and cleaning, Encoder-Decoder is used as the seq2seq model.

- **Hotel Management System.**
  Description: It was an academic project where HTML, CSS, Javascript, ASP.NET and SQL Server were used for taking and maintaining the reservation of a Hotel.

- **DC Power Supply.**
  Description: A voltage supplier that provides 0-30v with over voltage, under voltage, short circuit protection capabilities that helped to get introduced with different electronics components and PCB design.

Test Score

- **TOEFL(97)**
  R-25,L-23,S-23,W-26 2024

SKILLS

Programming Languages: Python, C, C++, HTML, CSS, Matlab
Frameworks: ASP.NET
Editor/IDE: Google Colab, Jupyter Notebook, Code Block, Visual Studio, Pycharm
Database: SQL Server, MySQL
Tools: NumPy, Pandas, Scikit-Learn,Keras, Matplotlib, Seaborn
Hands-on: Cisco Packet Tracer
Others: Problem Solving, Leadership, Management, Microsoft Office

Awards and Scholarship

- **Dean's Award**
  2 times for Outstanding Academic Performance
- **Red White Innovation Olympiad 1.0**
  Finalist
- **HSC Board Scholarship**
  General From Education Board, Cumilla, Bangladesh
- **SSC Board Scholarship**
  General From Education Board, Cumilla, Bangladesh

EXTRA-CURRICULAR ACTIVITIES

- Participated in a 3 months long career development program arranged by Grameenphone Bangladesh that provides participants learning opportunity through exposure to teams of GP and provides experience of interacting with people of diverse age and backgrounds.
- Participated in a national hackathon competition and led the team to the final where the idea was based on Artificial Intelligence.
- Member Secretary of ECE- KUET Research Society.
- Player of departmental cricket and football team and champion of last intra department cricket tournament.

ONLINE COURSES

- Data Scientist with Python Track- Datacamp
- Machine Learning Fundamentals with Python Track- Datacamp
- Supervised Machine Learning (deeplearning.ai) – Coursera
- SQL Essential Training- Linkedin
- Mathematical Thinking in Computer Science- Coursera

REFERENCES

• **Dr. Pallab Kumar Choudhury**
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Relation: Thesis Supervisor

• **Dr. Mirza Mohd Shahriar Maswood**
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Relation: Undergraduate Course Instructor.