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)
  Studies focused on Analog and Digital Electronics, Programming, Data Structure, Algorithms, Image Processing, Mathematics, Numerical Methods, Calculus, Statistics, Computer Networking, and Web Technologies, Machine Learning, Biomedical Engineering etc.

- **Higher Secondary School Certificate (HSC)**
  Hajiganj Degree College — June 2018
  GPA: 5.00/5.00
  Studies focused on engineering subjects such as Calculus, Algebra, Trigonometry, Physics, Chemistry, and Practical applications.

- **Secondary School Certificate (SSC)**
  Hajiganj Model Pilot High School & College — April 2016
  GPA: 5.00/5.00
  Studies focused on science subjects such as Geometry, Algebra, Trigonometry, Physics, Chemistry, and Practical applications.

EXPERIENCE

- **M**ember Secretary of ECE
  Kuet Research Society — November 2023- May 2024

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 was 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. Here I also tried to express the sentiment with relative sentiment score. I was able to get the accuracy of 96.84

Projects:

- **Accident Detection and Developing an Alert System Using Deep Learning.**
  Description: Aimed to detect accident from video footage of a cctv-camera. I tried to develop alert system along with gps to inform authorities about the location of the accident. My model was 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: Built a conventional CNN model to detect pneumonia accurately from chest X-rays. In addition, I also used a pre-trained model VGG-16 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: Designed for translating French to English. Here after going through several text preprocessing and cleaning I used Encoder-Decoder as the seq2seq model.

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

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

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 national hackathon competition and led the team to the final where the idea was based on Artificial Intelligence.

- 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.

- Was the 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 Sk. Shariful Alam**
  Professor, Dept of ECE, KUET, Khulna, Bangladesh
  Phone: +8801930788352
  Email: ssalam@ece.kuet.ac.bd, rahimbds@yahoo.com
  Relation: Head of Dept and Thesis Supervisor

- **Dr. Monir Hossen**
  Professor, Dept of ECE, KUET, Khulna, Bangladesh
  Phone: +8801714087380
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  Relation: Undergraduate Course Instructor.

- **Mirza Mohd Shahriar Maswood**
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