Md. Shahidul Salim

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Job Experience

July 2022 – Present	🔖 **Faculty member,** Department of CSE, Khulna University of Engineering & Technology (KUET),Bangladesh
April 2021 – March 2022	🔖 **Faculty member,** Department of CSE, Uttara University, Bangladesh

Education

2016 – 2021	🔖 **B.Sc. in Computer Science and Engineering,** Khulna University of Engineering & Technology (KUET),Bangladesh – **CGPA** 3.86 out of 4.00 (4th position in my department)

Research Publications

Journal Articles

1. Ashiqussalehin, M., Jahan, K. N., Rahaman, M. A., & Salim, M. S. (2022). Human abnormal behavior detection using convolution neural network. *Specialusis Ugdymas*, *1*(43), 4076–4083.

Conference Proceedings

1. Hossain, L., Hossain, I., Salim, M. S., Raju, S. M. T. U., & Saha, J. (2023). A novel technique for classification of motor imagery eeg signal based on deep learning approaches. In *Proceedings of the 2nd international conference on big data, iot and machine learning (bim 2023)*. (Accepted).

2. Promi, R. T. H., Nazri, R. A., Salim, M. S., & Raju, S. M. T. U. (2023). A deep learning approach for non-invasive hypertension classification from ppg signal. In *2023 international conference on next-generation computing, iot and machine learning (ncim)* (pp. 1–5).
   🔗 doi:10.1109/NCIM59001.2023.10212940

3. Salim, M. S., Islam, M. T., Zannat, R., Mia, N., Fuad, M., & Murad, H. (2023). Towards developing a transformer-based bangla typing error correction model: A deep learning-based approach. In *International conference on information and communication technology for sustainable development (icict4sd-2023)*. (Accepted).

4. Salim, M. S., Murad, H., Das, D., & Ahmed, F. (2023). Banglagpt: A generative pretrained transformer-based model for bangla language. In *International conference on information and communication technology for sustainable development (icict4sd-2023)*. (Accepted).

5. Ahmed, T., Hossain, S., Salim, M. S., Anjum, A., & Azharul Hasan, K. M. (2021). Gold dataset for the evaluation of bangla stemmer. In *2021 5th international conference on electrical information and communication technology (eict)* (pp. 1–6). 🔗 doi:10.1109/EICT54103.2021.9733662

6. Salim Shakib, M. S., Ahmed, T., & Azharul Hasan, K. M. (2019). Designing a bangla stemmer using rule based approach. In *2019 international conference on bangla speech and language processing (icbslp)* (pp. 1–4). 🔗 doi:10.1109/ICBSLP47725.2019.201533

Ongoing Research and Thesis Supervision

Under Review

- An Applied Statistics Dataset for Human vs AI-Generated Answer Classification
- Bangla Emergency Post Classification on Social Media using Transformer-Based BERT models
- Agricultural Recommendation System based on Multivariate Weather Forecasting Model
- Detecting AI-Generated Assignments in Educational Evaluation: A Transformer-Based Approach

Ongoing Research

- A transducer-based Bangla stemmer using Bangla lexicon
- Automatic Text Summarization in Bengali: A Study on the Effectiveness of the mT5 Transformer Model
- Correction of Bangla sentences with Guruchondali Dosh

Thesis Supervision

- Towards Developing a Transformer-based Bangla Typing Error Correction Model: A Deep Learning-based Approach
- Automatic Text Summarization in Bengali: A Study on the Effectiveness of the mT5 Transformer Model
- Correction of Bangla sentences with Guruchondali Dosh
- KUET chatbot by checking semantic similarity

Awards and Projects

Awards

- Dean's Award by Faculty of Electrical & Electronic Engineering (1st year,2nd year, 3rd year,4th year)

Projects

- **KUET Chat Bot** - Information about KUET.
  – Students can chat with the bot and get information about KUET.
- **Efficient Backlog Routine Generator** - Building with Python and Flask for Streamlined Task Management
- **Anonymity-Preserving Post Web Application** - Implementing Python and Flask for Secure and Confidential Content Sharing
- **Statistics exam** - Design and Implementation of a Statistics Exam Generation System for Students using Python and Flask with Randomized Data Generation
- **Counterfeit note detection** - Fake Bangladeshi Banknote Detection using Convolutional Neural Networks (CNN)
- **Brain Tumor Detection using Convolutional Neural Networks (CNN)** - An AI-based Approach for Accurate Diagnosis

Online Courses

- Natural language processing (NLP) using libraries from the Hugging Face ecosystem
  – Transformers, Datasets, Tokenizers, Accelerate and Hugging Face Hub
- LangChain- Develop LLM powered applications with LangChain(Udemy)
- Supervised Machine Learning: Regression and Classification

Online Courses (continued)

- NLP - Natural Language Processing with Python(Udemy)
- Hands-On Natural Language Processing (NLP) using Python(Udemy)
- Probability and Statistics for Business and Data Science(Udemy)

Miscellaneous Experiences

Voluntary Experience

2023   Research paper review (Worked as a reviewer for the conference AAAI-2024).

2017-2019   Dream (Voluntary Blood Donation Society of KUET).

2018   Volunteer in Bitfest 2019 arranged by CSE association.

Technical Skills

Programming Languages

- Python   HTML
  C   CSS
  C++   LaTeX
  Java   Javascript

Python Frameworks

- Scikit-learn   Pytorch
  Tensorflow   Matplotlib
  Keras   Transformer

Modern AI

- Natural Language Processing
  Machine Learning
  Deep Learning
  Data Analysis
  Data Visualization