

# MD SHAHIDUL SALIM

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🌐 <https://shahidul034.github.io/>

## EDUCATION

- PhD in Computer Science** Jan 2025 - Present  
University of Massachusetts Lowell (UMass Lowell), MA, USA
- Bachelor of Science in Computer Science and Engineering** Mar 2020  
Khulna University of Engineering & Technology (KUET), Khulna, Bangladesh  
CGPA: 3.86/4.00

## WORK EXPERIENCE

- Graduate Research Assistant**, BioNLP Lab, UMass Lowell, Lowell, MA, USA Jan 2025 – Present
- Advisor: Prof. Hong Yu
  - **Research areas:** Multi-LLM adversarial attacks and guard models for LLM defense using reinforcement learning (RL); readability control of electronic health record (EHR) notes using RL; clinical machine translation and summarization; prompt engineering; multi-agent LLM systems; and uncertainty quantification in large language models.
- Lecturer**, Khulna University of Engineering & Technology (KUET), Khulna, Bangladesh May 2022 – Dec 2024
- Designed and taught courses in NLP, ML, Applied Statistics, and Database Systems; developed hands-on assignments and labs 🌐.
  - Initiated projects including Bangla masked language models, an LLM-based QA chatbot builder, and BanglaGPT; contributed datasets and open-source code.
- Lecturer**, Uttara University, Dhaka, Bangladesh April 2021 – May 2022
- Designed and taught courses in NLP, ML, and AI; developed project-based labs and assessments aligned with real-world tasks.
  - Led development of Bangla Text Error Correction, a Bangla Stemmer, and an Agricultural Recommendation System; defined problem scope, built and evaluated models, and documented results.

## SELECTED PUBLICATIONS

### NLP

1. **Md Shahidul Salim**, L. Fu, A. A. Ramakrishnan, S. Kwon, Z. Yao, H. Yu. “*Enhancing English-to-Spanish Medical Translation of Large Language Models Using Enriched Chain-of-Dictionary Framework*”, EMNLP, 2025 🌐 🌐.
2. Lamisa Binte Mizan Deya, Farhatun Shama, Abdul Aziz, Md Kaykobad Reza, **Md Shahidul Salim** “*Abstractive Summarization of Bengali Academic Videos Based on Audio Subtitles*”, Findings of EACL, 2026
3. **Md Shahidul Salim**, L. Fu, A. A. Ramakrishnan, S. Kwon, Z. Yao, H. Yu. “*Enhancing Multilingual Medical Summarization via Contextual Keyword Augmentation*”, CLEF BioASQ workshop, 2025 🌐
4. **Md. Shahidul Salim**, S. I. Hossain, T. Jalal, D. K. Bose, M. J. I. Basher. “*LLM based QA chatbot builder: A generative AI-based chatbot builder for question answering*”, SoftwareX, vol. 29, 2025 🌐 🌐.
5. Aritra Naha Likhan, Anirban Roy, **Md. Shahidul Salim**, Sk Imran Hossain. “*WaveGuard: A flood monitoring and rescue system*”, SoftwareX, vol. 30, 2025 🌐
6. **Md. Shahidul Salim**, S. I. Hossain. “*An Applied Statistics dataset for human vs AI-generated answer classification*”, Data in Brief, 2024 🌐 🌐.
7. A. M. Saad, U. N. Mahi, **Md. Shahidul Salim**, S. I. Hossain. “*Bangla news article dataset*”, Data in Brief, 2024 🌐.

## UNDER REVIEW

1. ReadAlign: Learning Clinically Grounded Style Signals for Readability-Controlled Clinical Summarization (Submitted COLM, 2026)

## SELECTED PROJECTS

- AI-Powered Personal & Academic Portfolio Assistant 2025 🌐 🌐
- LLM based QA chatbot builder – A tool to construct question-answering chatbots 2024 🌐
- WaveGuard : A flood monitoring and rescue system 2025 🌐
- Medical LLM Chat Bot – Chat with PDF medical documents using LlamaV2 2024 🌐
- Counterfeit note detection – CNN-based fake Bangladeshi banknote detection 2018 🌐
- KUET Chat Bot – Information about KUET 2022 🌐
- Efficient Backlog Routine Generator using FFD Bin Packing with Flask & Bootstrap 2022 🌐

- Statistics exam – A statistics exam generation system using Python and Flask
- Hello OS – A simple operating system project using Grub and QEMU

2021   
2019 

## SKILLS

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**Languages:** Python, C/C++, HTML/CSS

**ML/AI:** PyTorch, VerL, Unsloth AI, vLLM, Hugging Face Transformers, Keras, scikit-learn

**Data/Dev:** NumPy, pandas, Git, Linux, LaTeX

**Other Expertise:** Langchain, LlamaIndex, Gradio Docker, FastAPI, REST, FAISS/Chroma, Weights & Biases

## ACHIEVEMENTS

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**Dean's List Award**, for academic excellence, KUET, Bangladesh

2016, 2017, 2018, 2019

**2<sup>nd</sup> Runner up**, Inter-University Poster Presentation, KUET, Bangladesh

2017

**National Level Scholarship**, Bangladesh

2015

## SERVICES

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- **Paper Reviewer**

- Conference: External Reviewer (AAAI, 24)