RAHAMAN NAGIUR — 纳吉

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Research Interests: My research interests encompass **intelligent speech analysis, focusing on speech enhancement, automatic speech recognition, and text-to-speech (TTS) synthesis** within multimedia contexts. I'm particularly interested in applying **deep learning, transfer learning, and adversarial learning** techniques to enhance **human-machine interaction** through **acoustic scene analysis**.

Education

Lanzhou University of Technology, Lanzhou, Gansu, China **Sep 2021 - Jul 2025**
*Bachelor of Science in Computer Science and Technology, **Chinese Taught*** *Result 78/100*

- **Course Work:** *C/C++, Database, System Design, ML, NLP, Image Processing, Big Data Technology.*

Phitron.io, Dhaka, Bangladesh **Sep 2022 - Dec 2023**
CS Fundamentals With Phitron (***online***) *Result 92/100*

- **Course Work:** *C/C++, DSA, OOP with Python, SQL, Software Engineering, Machine Learning.*
- Completed 5 Software Engineering Projects
- Solve **500+** coding problem
- Top 3% of the class

Research Experience

Research Assistant **Jan 2025 - Present**
Department of Materials Science and Engineering *Lanzhou University of Technology*

- Applying ML to optimize biocompatible polymer selection for advanced membrane technology.
- **Responsibilities:** Data preprocessing, feature engineering, model training and validation.
- **Current focus:** Data preprocessing and feature engineering techniques.

Research Contributions

- **Rahaman Nagiur**, Al-Muqaddam Anas, Khudyanzarov Shokhzodjon, Shamalik Garlyyev, Hussien Mohammed (2024), ***Fine-tuning pre-trained language models for grammatical acceptability, correction, sentiment analysis, and emotion detection***. International Journal of Research in Advanced Engineering and Technology, 10(2), 42-49. ISSN:2455 0876.
- **Rahaman Nagiur**, Perfilev Dmitrii (2024), ***Navigating the DevOps landscape: Insights and perspectives***. International Journal of Research in Advanced Engineering and Technology, 10(1), 27-29. ISSN: 2455-0876.

Technical Strengths

- **Research Methodology:** Proficient in research methodology (literature review, study design, technical writing). Expertise in applying machine learning techniques.
- **Programming Languages:** (Proficient) Python, JavaScript, SQL, (Familiar) C/C++, Java, and Bash.
- **Libraries and Tools:** TensorFlow, PyTorch, Pandas, Scikit-learn, Node.js, Git, and Linux.

Achievements and Awards

- Winner of **"Outstanding Student Award"** - Lanzhou University of Technology *2023*
- Winner of **"Outstanding Student Award"** - Lanzhou University of Technology *2022*
- Winner of **"President Scholarship"** - Lanzhou University of Technology *2021*

Key Projects

Fine-tuning Pre-trained for Writing Improvement **NLP, transformer**
https://github.com/nagiurDev/grammar-sentiment-emotion-analysis

- **Datasets:** CoLA, Lang-8, SST-2, GoEmotions
- **Models:** RoBERTa (base), FLAN-T5 (base)
- **Challenges:** Optimizing pipeline for multiple, potentially conflicting objectives.
- **Key achievements:** Balancing task-specific optimization in multi-task learning.

News Classification **NLP, Web Scraping, Data Preprocessing**
https://github.com/nagiurDev/news-classification

- Scrapes news data from People.cn.
- Cleans, preprocesses, and explores the news data.
- Builds and evaluates an SVM model for news classification.
- Uses Jupyter notebooks for data processing and model building.

SST-2 Sentiment Analysis Comparison **NLP, Fine-tuning, Benchmarking**
https://github.com/nagiurDev/sst2-sentiment-analysis-comparison

- Compares BERT, DistilBERT, and RoBERTa for sentiment analysis.
- Uses the SST-2 dataset for benchmarking.
- Evaluate performance using accuracy and F1-score.
- Provides code and results for reproducibility.

Leadership

AI Study Club, Lanzhou University of Technology **Oct 2023 - Dec 2023**
Responsibilities

- Led a weekly AI study club for international PhD, Master's, and undergraduate students.
- Planned and delivered 10-weekend workshops.
- The workshops cover core AI concepts.
- Responsible for topic selection, presentation preparation, and workshop promotion.

Languages

Bangla (Native) **Chinese (HSK-5)** **English (Fluent)**

Additional Relevant Courses

- **Ethics in Research** *DataSkool*
- **TinyML and Efficient Deep Learning Computing** *MIT*
- **MIT 6.S191 Introduction to Deep Learning** *MIT*