RAHAMAN NAGIUR — 纳吉

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Research Interests: Quantitative methods and machine learning in NLP or CV, with interest in LLM agent applications. Skills include statistical modeling, Python data analysis, and experimental design. Seeking challenging projects with large datasets.

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 - Presents**
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*