RAHAMAN NAGIUR — 纳吉

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Final year undergraduate at IIT Bombay pursuing a major in Computer Science and Engineering with honors, applying for masters in Computer Science. I am passionate about research in the field of Artificial Intelligence and Machine Learning. I have a strong foundation in computer science fundamentals and have worked on several projects in the field of NLP, Computer Vision, and Reinforcement Learning.

Education

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

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

Phitron, 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 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 Skills

- **Research skills:** Literature Review, Report Writing, Research Proposal Writing.
- **Machine Learning:** Data Handling, Model Training (supervised, unsupervised, reinforcement learning), Model evaluation (precision, recall, F1 score), Cross-validation, feature engineering.
- **ML Techniques:** Named Entity Recognition (NER), Relation Extraction (RE), Text Classification, Sentiment Analysis, Text Summarization, Image Classification, Object Detection, Image Segmentation, Feature Extraction, Image Enhancement.

Technical Skills

- **Programming Languages:** Python, JavaScript, C/C++, SQL, Java, Bash.
- **Machine Learning:** TensorFlow, Keras, Pandas, SpaCy, Sci-kit-learn.
- **Development:** Node.js, Reactjs, Nextjs.
- **Other Skills:** Git, Cloud computing, Linux, LaTeX, Docker, Gradle, PostgreSQL.

Research Projects

Develop an NER Dataset with Entity Relationships **Dec 2024 - Presents**
Keywords: *NLP, NER, RE, Corpus, git-link* *Ongoing*

- Creating a South Asian business/economy NER dataset.
- Designing an annotation schema and taxonomy.
- Developing and evaluating state-of-the-art NER models.
- Currently focusing on data collection.

Fine-tuning Pre-trained Language Models for Writing Improvement **Oct 2024 - Dec 2024**
Keywords: *NLP, grammar correction, sentiment and emotion analysis, transformer* *Completed*

- **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.

Key Projects

News Classification **ML, 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.

Parking Spot Detection Dataset **ML, Object Detection, YOLO, Image Processing**
https://github.com/nagiurDev/parking-spot-dataset

- Creates a parking spot detection dataset from video.
- Includes annotated images for YOLO model training.
- Provides preprocessing scripts, augmentation, and evaluation tools.
- Dataset organized in YOLO format (train/validation/test).

01. Academic: Header, Education, Research Contributions, Strengths, Research Projects, Projects