MD. TAUFIQUL HAQUE KHAN TUSAR

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https://taufiq-ai.github.io/ | scholar.google.com/citations?user=fhbEomUAAAAJ

Skills

Language	Python, SQL
Machine Learning	Transformers, PyTorch, llama.cpp, NLTK, SK-learn
Backend	Django, Flask, Docker, AWS, Celery, Sentry
Additional	Git & GitHub, Linux (Ubuntu), LaTeX

Experiences

NLP Engineer & Backend Developer *May 2023 - present*

LaLoka Labs *Tokyo 110-0016, Japan (Remote)*

- Working on **KAFKAI V3**'s Backend and LLMs pipelines development, optimization, maintenance, and scaling.
- Worked on fine-tuning, PEFT, RAG, GPU utilization for **KAFKAI V2**.

Research Engineer *Feb 2023 - March 2023*

AIMS Lab, United International University *Dhaka 1212, Bangladesh*

- Developed backend and database for a receptionist robot with face-speaker-speech recognition and communication capabilities.

Education

Bachelor of Science (B.Sc.) in Computer Science & Engineering *Apr 2018 - Nov 2022*

City University *Dhaka 1216, Bangladesh*

Major: Software Engineering | **CGPA:** 3.21 out of 4.00 | **Medium of Instruction:** English

Research & Publications

[1] **M. T. H. Khan Tusar** et al., "An Intelligent Telediagnosis of Acute Lymphoblastic Leukemia using Histopathological Deep Learning," Journal of Computing Theories and Applications (JCTA), vol. 2(1), pp. 1–12, 2024. doi: 10.62411/jcta.10358.

[2] **M. T. H. Khan Tusar**, M. T. Islam, and A. H. Sakil, "An experimental study for early diagnosing Parkinson's disease using machine learning," Pre-print, 2023. doi: 10.48550/arXiv.2310.13654.

[3] J. Hossain, M. T. Islam, and **M. T. H. K. Tusar** "Streamlining Brain Tumor Classification with Custom Transfer Learning in MRI Images," 2023 IEEE Smart Information Systems and Technologies (IEEE SIST), Astana, Kazakhstan, 2023, pp. 522-526, doi: 10.1109/SIST58284.2023.10223507.

[4] **M. T. H. K. Tusar** and R. K. Anik, "Automated detection of acute lymphoblastic leukemia subtypes from microscopic blood smear images using Deep Neural Networks," B.S. Thesis, Dept. of CSE, City Univ., Dhaka, Bangladesh, 2022, doi: 10.48550/arXiv.2208.08992.

[5] **M. T. Haque Khan Tusar**, M. T. Islam and F. I. Raju, "Detecting Chronic Kidney Disease (CKD) at the Initial Stage: A Novel Hybrid Feature-selection Method and Robust Data Preparation Pipeline for Different ML Techniques," 2022 5th IEEE International Conference on Computing and Informatics (ICCI), New Cairo, Cairo, Egypt, 2022, pp. 400-407, doi: 10.1109/ICCI54321.2022.9756094.

[6] **M. T. H. K. Tusar** and M. T. Islam, "A Comparative Study of Sentiment Analysis Using NLP and Different Machine Learning Techniques on US Airline Twitter Data," 2021 IEEE International Conference on Electronics, Communications and Information Technology (ICECIT), Khulna, Bangladesh, 2021, pp. 1-4, doi: 10.1109/ICECIT54077.2021.9641336.

Leadership

- **Community Lead**, AI/ML Professional Community Bangladesh — Mar 2025 - Present
- **Community Organizer**, Python Bangladesh Organization — Jan 2025 - Present

References

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