

H M QUAMRAN HASAN

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EDUCATION

- University of Alberta (UofA) Sep 2024 - Present
Masters of Science in Computer Science
Supervised by Dr. Randy Goebel, Mi-Young Kim
- Korea Advanced Institute of Science and Technology (KAIST) Sep 2019 - Feb 2024
Bachelor of Science in Computer Science & Business Technology Management
CGPA: 3.74/4.30, (94.4/100), Honors: Cum Laude

SKILLS

- **Languages:** Python (5 years), SQL (2 years), C (2 years), JAVA (1 year).
- **Frameworks & Tools:** Django ORM, TensorFlow, PyTorch, Keras, Pandas, NumPy, Scikit-Learn, Seaborn, Selenium, OpenCV, Figma, Hotjar, Redash, Git.
- **Cloud Computing & Data Management:** AWS, Google BigQuery, Google Analytics, Google Tag Manager, Tableau, MySQL, PostgreSQL, IBM SPSS Statistics, SAP Analytics Cloud.

RESEARCH EXPERIENCE

- UofA xAI Lab | Edmonton, Canada | *Research Assistant* Sep 2023 - Present
 - Working on the integration of large language models in the fields of explainable medical and legal AI.
- KAIST Data Mining Lab | Daejeon, S. Korea | *Research Intern* Jul 2023 - Dec 2023
 - Contributed to the DB4DL project, focusing on enhancing distributed training efficiency for Transformers. Conducted research on models such as BERT and T5 to identify optimal parallelism strategies.
- KAIST Users and Information Lab | Daejeon, S. Korea | *Undergraduate Student Researcher* Mar 2023 - Dec 2023
 - Enhanced ChatGPT's accuracy for reasoning tasks in Bengali by 20% through back translation and CoT reasoning.
 - Established the BEnQA English-Bengali parallel corpus, comprising 5,161 science questions from the Bangladesh national curriculum grade school exams, including many that involve multi-step reasoning.
 - Proposed a prompting strategy that consistently improves performance in Bengali.

PUBLICATIONS

Sheikh Shafayat, **H M Quamran Hasan**, Minhajur Rahman Chowdhury Mahim (2023, December 16). BEnQA: A Question Answering and Reasoning Benchmark for Bengali and English. ACL Findings 2024, Bangkok. Thailand.

INDUSTRY EXPERIENCE

- MolpaxBio | Daejeon, S. Korea | *AI Researcher* Feb 2024 - June 2024
 - Developed a novel metric and a model with a precision of 0.83 for cell structure detection for qualitative and quantitative evaluation of NASH.
 - Achieved an FID score of 12.97 and precision of 0.77 after developing a GAN model to generate lung tissue WSI patches.
- SicPama | Seoul, S. Korea | *Data Scientist* Nov 2022 - Feb 2023
 - Led UX/UI team to optimize service UI based on user behavior analysis using Hotjar and Google Analytics.
 - Designed and implemented a streamlined data collection strategy using Google Tag Manager.
 - Achieved a 90% reduction in data collection time by automating POS data collection.
 - Improved sales by developing a recommendation system from the ground up.
- Kooky | Seoul, S. Korea | *Data Analyst* Jan 2022 - Aug 2022
 - Achieved a 150% increase in users by identifying potential markets and improving market-wise user experience.
 - Achieved an 80% increase in user engagement, by leading the content team based on user behavior analysis.
 - Led data collection, storage, and extraction for insights.
 - Guided data-driven go-to-market and artist selection through user location and behavior analysis.

LEADERSHIP AWARDS & EXTRACURRICULARS

- **UofA | Teaching Assistant:** Sep 2024 - Present
Serving as a TA for the database course assisting with grading, lectures, and conducting lab sessions.
- **Computer Science Graduate Students Association | Director at Large** Sep 2024 - Present
- **KAIST | Teaching Assistant:** Jul 2023 - Dec 2023
Served as a TA for English as a Foreign Language courses at KAIST obtaining 100% satisfaction level from professors.
- **KAIST International Students Association | Deputy Secretary & Director of Welfare Division** Aug 2021 - Jan 2023
- **KAIST Leadership Award**
- **KAIplus Scholarship Recipient**