

# H M QUAMRAN HASAN

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## EDUCATION

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

## SKILLS

- **Languages:** Python (5 years), SQL (3 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

<b>UofA xAI Lab</b>   Edmonton, Canada   <i>Research Assistant</i>	Sep 2023 - Present
• Working on integrating large language models in the fields of explainable medical and legal AI.	
<b>KAIST Data Mining Lab</b>   Daejeon, S. Korea   <i>Research Intern</i>	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.	
<b>KAIST Users and Information Lab</b>   Daejeon, S. Korea   <i>Undergraduate Student Researcher</i>	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

<b>MolpaxBio</b>   Daejeon, S. Korea   <i>AI Researcher</i>	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.	
<b>SicPama</b>   Seoul, S. Korea   <i>Data Scientist</i>	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.	
<b>Kooky</b>   Seoul, S. Korea   <i>Data Analyst</i>	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.	
• Guided data-driven go-to-market and artist selection through user location and behavior analysis.	

## LEADERSHIP AWARDS & EXTRACURRICULARS

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