

H M QUAMRAN HASAN

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SKILLS

- **Languages:** Python (7 years), SQL (5 years), C, JAVA
- **Frameworks & Tools:** Django ORM, TensorFlow, PyTorch, Keras, Pandas, NumPy, Scikit-Learn, Seaborn, Selenium, OpenCV, Copilot Studio, Salesforce Agentforce, Redash, Git, LangChain
- **Cloud Computing & Data Management:** AWS, Google BigQuery, Google Analytics, Google Tag Manager, Tableau, MySQL, PostgreSQL, IBM SPSS Statistics, SAP Analytics Cloud.

INDUSTRY EXPERIENCE

- Servus Credit Union** | Edmonton, Canada | *AI Operations Analyst* Aug 2025 - Present
- Development and monitoring of agents with 1000+ weekly active users.
 - Improving AI enablement through support and development of use cases across multiple departments.
- AMII** | Edmonton, Canada | *Work-Integrated Learning Opportunity (Client Coaching)* Dec 2024 - Apr 2025
- Built case studies for 5 startups on using Transformers for Ectopic Beat Detection, Differential Privacy with LLMs, and agentic AI.
 - Collaborated with AMII Scientists to provide technical coaching to startups in integrating ML techniques into their service.
- 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 a 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 the UX/UI team to optimize the service UI based on user behavior analysis using Hotjar and Google Analytics.
 - Achieved a 90% reduction in data collection time by automating POS data collection.
- 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.

RESEARCH EXPERIENCE

- UofA xAI Lab** | Edmonton, Canada | *Research Assistant* Sep 2024 - Present
- Working on integrating 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
- Benchmarked LLMs' accuracy for reasoning tasks in Bengali by 20% through back translation and CoT reasoning.

PUBLICATIONS

Reason2Decide: Rationale-Driven Multi-Task Learning. **Hasan, H. M. Q.**, Babiker, H. K. B., Dai, J., Kim, M.-Y., Goebel, R. LREC 2026, Palma, Spain.

Reason2Decide-C: Adaptive Cycle-Consistent Training for Clinical Rationales. **Hasan, H. M. Q.**, Babiker, H. K. B., Kim, M.-Y., & Goebel, R. Computers, 2026, 15(5), 279.

Hybrid Legal Reasoning Approaches for COLIEE 2025. Baek, E., Dai, J., **Hasan, H. M. Q.**, Kim, Y., Gupta, A., Babiker, H. K. B., Kim, M.-Y., Goebel, R. The Review of Socionetwork Strategies, 2026.

BEnQA: A Question Answering and Reasoning Benchmark for Bengali and English. Shafayat, S., **Hasan, H. M. Q.**, Mahim, M. R. C., ACL Findings 2024, Bangkok, Thailand.

EDUCATION

- University of Alberta (UofA) Sep 2024 - Present
Master of Science in Computer Science
- Korea Advanced Institute of Science and Technology (KAIST) Sep 2019 - Feb 2024
Bachelor of Science in Computer Science & Business Technology Management

HONORS AND AWARDS

- UofA Department of Computing Science Recruitment Award Recipient
- KAIST Leadership Award Recipient