Mir Mahathir Mohammad- Curriculum Vitae

Contact

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Research Interests

My research focuses on making data pipelines more efficient by addressing critical bottlenecks in data science workflows. I develop systems for data discovery that enable users to find and join relevant datasets across large-scale data lakes through tabular interfaces and join path discovery. My research interests lie in data discovery, data wrangling, and data cleaning.

Education

University of Utah, Salt Lake City, Utah, USA
Ph.D. (in progress), Computer Science, Kahlert School of Computing, August 2023 – Present
Advisor: El Kindi Rezig

Bangladesh University of Engineering and Technology, Dhaka, Bangladesh
Bachelor of Science, Computer Science and Engineering (CSE), April 2017 – April 2022
Advisor: Muhammad Abdullah Adnan

Publications

- ***SIGMOD'26***: Mir Mahathir Mohammad, El Kindi Rezig. Qualitative Join Discovery in Data Lakes using Examples. ACM SIGMOD International Conference on Management of Data, 2026. [PDF]
- ***VLDB'25 (Demo)***: Akash Khatri, Mir Mahathir Mohammad, El Kindi Rezig. Sort it Like You Mean It: Discovering Semantically Interesting Attribute Augmentations to Sort Tables. International Conference on Very Large Data Bases (VLDB), Demo Track, 2025. [PDF]
- ***CIDR'26***: El Kindi Rezig, Mir Mahathir Mohammad, Nicolas Baret, Ricardo Mayerhofer, Andrew McNutt, Paul Rosen. Towards Scalable Visual Data Wrangling via Direct Manipulation. Conference on Innovative Data Systems Research (CIDR), 2026. [PDF]
- ***FG'24***: Iftekhar E Mahbub Zeeon, Mir Mahathir Mohammad, Muhammad Abdullah Adnan. BTVSL: A Novel Sentence-Level Annotated Dataset for Bangla Sign Language Translation. IEEE International Conference on Automatic Face and Gesture Recognition (FG), 2024. [PDF] [Link]
- ***Neurocomputing'22***: Md. Ashraful Islam, Mir Mahathir Mohammad, Sarkar Snigdha Sarathi Das, Mohammed Eunus Ali. A survey on deep learning based Point-of-Interest (POI) recommendations. Neurocomputing (Journal), 2022. [PDF] [Link]

Professional Experience

University of Utah, Kahlert School of Computing (KSoC), Salt Lake City, Utah, USA
Research Assistant, August 2023 – Present

Bangladesh University of Engineering and Technology, CSE, Dhaka, Bangladesh
Research Assistant, July 2022 – June 2023

Everforth, Tokyo, Japan (Remote)
Frontend Developer, April 2022 – June 2023

Technical Skills

Database: MongoDB, MySQL, PostgreSQL **ML & Data:** Pandas, PyTorch **Frontend:** Vue.js, React.js, Capacitor.js, Streamlit

Deployment & Cloud: Docker, Google Cloud Platform **Backend:** Node.js, Express.js

Languages: Python, JavaScript, C++, Java

Voluntary and Academic Software Projects

Badhan, BUET Zone: Blood Donation Management System CSFlow: Academic Website PicUp: Image Hosting Website Web Supported Card Payment System CNN Based Object Detection for Starfish Multiplayer Chess Game Automated Robotic Arm