

Jibran Ahmed Khan

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Summary

- Currently an AI researcher intern at Mayo Clinic's Rhazes Lab focusing on digital histopathology
- 1+ year of data science experience using Python, R, SQL and large health data.
- Proven ability to build strong formal and informal relationships.

EDUCATION

Bachelor of Arts, Luther College, Decorah, IA

January 2021- January 2025

Major: Data Science & Management

TECHNICAL SKILLS

Programming Languages: Python, R, SQL

Machine-learning libraries: Pandas, Numpy, Scikit-Learn, Matplotlib, Pytorch, OpenCV, OpenSlide

WORK EXPERIENCE

AI Researcher at Mayo Clinic

February 2023 - Present

- Working on medical image analysis using machine learning techniques including classification, clustering, and retrieval.
- Utilizing deep learning models, including CNNs and transformers, to extract features from whole slide images (WSIs) and applying search and matching techniques to assess model accuracy across various cancer modalities.
- Delving into multimodal research, integrating patient reports with WSIs, and developing techniques to enhance image retrieval accuracy.
- Conducting benchmark analysis of state-of-the-art histopathology search engines pipelines on public datasets and generating comparative results to evaluate performance efficiency.
- Collaborated with fellow lab members on team projects, serving as a co-author for the research papers:
 - "When is a Foundation Model a Foundation Model", (<https://arxiv.org/pdf/2309.11510v1.pdf>)
 - "Rotation-Agnostic Image Representation Learning for Digital Pathology", (<https://arxiv.org/pdf/2311.08359.pdf>)
 - "Selection of Distinct Morphologies to Divide & Conquer Gigapixel Pathology Image", (<https://arxiv.org/pdf/2311.09902.pdf>)

Data Analyst Intern at Global Emergency Response and Assistance (GERA)

May 2022 - July 2022

- Managed the data wrangling process, including cleaning, processing, and organizing historical donor data for GERA.
- Employed data visualization techniques to transform numerical data into graphs, tables, and charts, contributing to the development of a targeted strategic plan aimed at enhancing donor engagement and acquisition.
- Collaborated with the team to plan and organize fundraising events, raising \$10,000 in donations.

Student Technician at Luther College Multimedia Center

January 2022 - February 2023

- Resolved 500+ tickets by assisting faculty/staff in troubleshooting digital media challenges on campus
- Recorded and edited over 10 campus events to be used by host organizations

Resident Assistant at Luther College Residence Life

August 2022 - February 2023

- Led a team of 40+ undergraduate students in residential living, addressing concerns and inquiries effectively
- Served as the primary contact for emergencies, successfully resolving conflicts, and ensuring residents' compliance with college policies
- Collaborated in planning and executing community-building events and educational programs, fostering a holistic living environment for all residents

LEADERSHIP SKILLS

President, International Student Association and Allies, Luther College

September 2022 – May 2023

- Established organization's overall objectives for the 2022-2023 year in collaboration with other executive members.
- Promoted intercultural understanding between the student body and conducted informative weekly meetings.
- Organized events, including an international student fashion show, Chai & Chill, and sports tournaments.