

Jibran Ahmed Khan

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SKILLS

Languages| • Python • R • SQL
Machine-Learning Libraries| • Pandas • NumPy • Scikit-Learn • Matplotlib • Plotly • Seaborn • OpenCV • OpenSlide • PyTorch
Software's & Tools| • Microsoft Office Suite • Tableau • Power BI • Adobe Photoshop • Adobe Premiere Pro
Soft Skills| • Team player • Deliver results • Communication • Leadership

WORK EXPERIENCE

- AI Researcher | Mayo Clinic, Rochester, MN****February 2023 - January 2024**
 - Developed a multi-modal search and matching technique using Large Language Models (LLMs), aimed at integrating Whole Slide Images (WSI) with text reports, enhancing search accuracy.
 - Applied various machine learning techniques to experiment with multiple cancer types, analyzing texts and images to enhance multi-modal search and matching accuracy.
 - Conducted data cleaning and analysis to identify patterns between text reports and histopathology images and utilized various visualization techniques to present weekly insights to the team.
 - Collaborated with lab colleagues on multiple research projects, actively participating in technical discussions, experimentation, and contributed as a co-author to research papers.
 - Managed complex research challenges and sharpened problem-solving abilities, while contributing towards innovative solutions in a fast-paced research environment.
- Data Analyst Intern | Global Emergency Response Assistance (GERA), Paterson, NJ****May 2022 - July 2022**
 - Managed the data wrangling process, including cleaning, processing, and organizing historical donor data for GERA, which helped target high-value donors and facilitated reaching out to them.
 - Utilized different 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 | Luther College Multimedia Center, Decorah, IA****January 2022 - Present**
 - Resolve 500+ tickets by assisting faculty/staff in troubleshooting digital media challenges on campus.
 - Assist in operation and scheduling of one-button studio, streamlining video production process for users with varying levels of technical expertise.
 - Record and edit 10+ campus events for use by host organizations.
- Resident Assistant | Luther College Residence Life, Decorah, IA****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.

EDUCATION

Bachelor's Degree - Data Science & Business Management**January 2021- December 2024**
Luther College, Decorah, IA
Relevant Coursework| • Introduction to Python • Data Analysis and Visualization • Machine-Learning & Deep-Learning • Introduction to Natural Language processing (NLP)
GPA| 3.51

PUBLICATIONS AND PROJECTS

- Co-author | Kimia Lab, Mayo Clinic****February 2023 - January 2024**
 - [Analysis and Validation of Image Search Engines in Histopathology.](#)
 - [When is a Foundation Model a Foundation Model.](#)
 - [Rotation-Agnostic Image Representation Learning for Digital Pathology.](#)
 - [Selection of Distinct Morphologies to Divide & Conquer Gigapixel Pathology Image.](#)
- Business Location Recommendation System for state of Iowa****February 2024 – Present**
 - Leading a team of 5 students in the development of an AI-driven recommendation system tailored to assist entrepreneurs in selecting optimal business locations within the state of Iowa.
 - Utilizing advanced analytics to evaluate success metrics of existing businesses across various cities in Iowa, enabling precise recommendations based on industry trends, demographic analysis, and market saturation levels.
- Ad Click Prediction Project**[View in GitHub](#)
 - Developed a machine learning algorithm to predict ad click likelihood, integrating EDA and logistic regression to enhance predictions and assess accuracy.
- Movie Recommendation System Project**[View in GitHub](#)
 - Designed and implemented an unsupervised movie recommendation system utilizing cosine similarity to recommend movies similar to user preferences, based on textual tags associated with each film.

Leadership

President, International Student Association and Allies (ISAA), Luther College**September 2022 – May 2023**

- Established the organization's overall objectives for the 2022-2023 year in collaboration with other executive members.
- Promoted intercultural understanding, organized multiple events and conducted informative weekly meetings.