

Syed Rizvi

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EDUCATION

College of Natural Science and Mathematics, University of Houston, TX

Bachelor of Science in Computer Science

May 2023

Cumulative GPA: 4.0, Major GPA: 4.0

EXPERIENCE

Houston Learning Algorithms (HULA) Group, Houston, TX

September 2020 - Present

Machine Learning Research Assistant

- Submitted paper to MICCAI conference proposing novel set transformer-inspired architecture for case-level renal disease classification
- Delivered presentation on a novel case-level classification architecture to over 100 medical professionals at the AI in Nephropathology Workshop in Amsterdam 2021
- Developed custom medical image annotation interfaces allowing for rapid grid-wise label application using React and the Labelbox JavaScript API
- Delivered presentation on custom labeling schemes using LabelBox platform to computer vision group at the University of Buffalo, NY
- Assisted in development of novel style initialization technique for smoothing out data distributions in nephropathology datasets using style transfer algorithms

INDEPENDENT PROJECTS

Autoencoder Anomaly Detection

August 2020

- Machine learning model aimed at anomaly detection in environmental sensor datasets from Amazon's Seattle Sphere conservatories
- Placed 3rd in the AWS & NVIDIA Environmental Hackathon (\$3000 award)
- Developed using Python, Pytorch, Jupyter Notebooks, and Amazon Sagemaker

NutrientView Mobile App

July 2020

- Nutrient logging app utilizing image recognition to track and display 25 macro and micronutrients consumed in food items
- Integrated a micronutrient QnA chatbot into application to give users more nutritional insight
- Developed using React Native, IBM Watson image recognition, Azure bot service, Firebase, and the Edamam Nutrition Analysis API

TECHNICAL STRENGTHS

Programming Languages: Python, C++, JavaScript, Java, Octave, MATLAB

Libraries: Pytorch, Tensorflow, Numpy, Pandas, Scikit-learn

HONORS AND AWARDS

Dean's Distinguished Scholars List, The University of Houston

Fall 2019 – Spring 2020

ACTIVITIES

Management Information Systems Student Organization

January 2020 – Present

Professional Development Committee

- Worked with a team of 20 committee members to perform 75 individual resume reviews leading up to recruiting season following resume guidelines set by C.T. Bauer College of Business
- Delivered a presentation on IT candidate development during professional development workshop