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: 3.97, Major GPA: 3.9

EXPERIENCE

HULA Research Laboratory, Houston, TX **September 2020 - Present**
Deep Learning Research Assistant

- Contributed to deep learning research projects covering Computational Histopathology, CNNs, and Generative Adversarial Networks under the mentorship of Dr. Hien Van Nguyen, ECE Department
- Coauthored conference paper proposing MorphSet CNN architecture (accepted to MICCAI 2021)
- Developed histopathology image annotation interfaces for 12 kidney disease labels on LabelBox platform
- Delivered oral abstract on MorphSet architecture and significance to 90+ medical professionals and AI researchers at the 2021 AI in Nephropathology Workshop in Amsterdam

Phillips 66, Houston, TX **May 2021 – August 2021**
IT (Natural Language Processing) Intern

- Extracted and processed text from 254 contract documents, resulting in a dataset of 2,717 text segments
- Trained and deployed domain-specific entity recognition models on AzureML cloud services, identifying 6 contract entities within unstructured text and reaching 87% overall model precision
- Developed a storage-triggered Azure Function App to analyze entire contract documents within 12 seconds
- Delivered NLP project presentation to IT leadership members and Data Science team at Phillips 66

PUBLICATIONS

- Cicalese, P.A., **Rizvi, S.A.**, Wang, V., Patibandla, S., Yuan, P., Zare, S., Moos, K., Batal, I., Clahsen-van Groningen, M., Roufosse, C. and Becker, J. (2021). MorphSet: Improving Renal Histopathology Case Assessment Through Learned Prognostic Vectors. International Conference on Medical Image Computing and Computer-Assisted Intervention (pp. 319-328). Springer, Cham.

PRESENTATIONS

MorphSet Project Abstract, AI in Nephropathology Workshop in Amsterdam **March 2021**
Natural Language Processing and Entity Recognition Models, Phillips 66 **August 2021**
Custom Histopathology Image Annotation Schemes, University of Buffalo Computer Vision Group **January 2021**

INDEPENDENT PROJECTS

Autoencoder Anomaly Detection **August 2020**

- Placed 3rd in the AWS & NVIDIA Environmental Hackathon ($3000 award)
- Developed using AWS Sagemaker, Python, Pytorch, and Jupyter Notebooks

TECHNICAL STRENGTHS

Libraries: Pytorch, Tensorflow, Keras, Pandas, Scikit-learn, Jupyter Notebooks
Programming Languages: Python, C++, SQL, R, JavaScript, Java

CERTIFICATIONS

IBM Data Science Specialization, IBM Coursera **August 2021**
Machine Learning, Stanford Online Coursera **February 2021**

ACTIVITIES

MISSO Professional Development Committee Member **August 2020 – May 2021**