Saad **Usmani**

Summary

Member of the LGBTQ+ community and advocate for queer issues and representation. Professional experience is in Data Science, where I provide AI/ML expertise in government and commercial spaces.

LGBT Outreach

Pridebots	Member of the planning committee of DataRobot's LGBTQ+ employee resource group, planning internal company forums and events throughout the year, including speaking at a panel describing the experience of coming out over the years.
Phi Kappa Tau	As Recruitment chair, I increased LGBT+ representation within the fraternity by over fifty-percent over a two year period.
Out In Tech	Member, primarily doing outreach to help young queer professionals find jobs in the tech industry

Professional Work Experience

DataRobot *Columbia, MD*

CUSTOMER FACING DATA SCIENTIST *August 2021 - Present*

- Led over 50+ technical client discovery calls, new business meetings, and use case identification sessions for both federal agencies and large commercial companies on every aspect of the machine learning lifecycle. Worked hand in hand with clients to build models for a variety of use cases with automated model development, custom feature engineering, and explainable AI with no black boxes. Curated demos of a technical platform with custom visualization applications including streamlit, R Shiny, and Plotly Dash.

Peraton *Columbia, MD*

DATA SCIENTIST *Jan 2019 - July 2021*

- Developed an interactive Plotly Dash EDA tool under minimum supervision to explore the causes of system level failures in maintenance data.
- Processed free-form, unstructured text fields using NLP tools, t-SNE dimension reduction, and K-means hierarchical clustering to classify faults.
- Curated an ETL process with S3, Nifi, and Linux instances with OCR to extract tables from large quantities of unstructured PDF manuals for PostgreSQL storage. Shortened weeks of manual extraction to an average of 45 seconds per PDF.
- Produced an end-to-end near real-time streaming application to classify incoming synthetic waveforms and identify anomalous items for human-in-the-loop feedback. Improved accuracy from a baseline 60% to 88% using novel BOSSV time series segmentation.

Perspecta / National Oceanic and Atmospheric Administration *Silver Spring, MD*

DATA SCIENCE INTERN *May 2018 - December 2018*

- Performed ARIMA and ETS modeling on the difference between projections and actual request data for the Joint Polar Satellite System (JPSS) ground system. Developed an R Shiny application and visualized time series forecasts.

Certifications

2020	**AWS Data Analytics (Specialty),** Amazon Web Services	*Expires 2023*
2020	**AWS Machine Learning (Specialty),** Amazon Web Services	*Expires 2023*
2019	**RPA Advanced Developer,** UiPath	

Education

New College of Florida *Sarasota, FL*

M.S. IN DATA SCIENCE *Aug 2017 - May 2019*

- Selected Coursework: Machine Learning, Time Series Analysis, Statistical Inference, Natural Language Processing

University of Rochester *Rochester, NY*

B.S. IN PHYSICS AND ASTRONOMY *Aug 2013 - May 2017*