Harrison S. Jansma

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EDUCATION

The University of Texas at Dallas **Aug 2018 – Aug 2020**
Master's in Computer Science, Data Science Track

Baylor University **Aug 2013 – May 2017**
BBA Business Fellows, Mathematics

TECHNICAL SKILLS

- Highly proficient: Python, Machine Learning, Statistical Modelling, SQL
- Proficient: Java, Git, HIVE, Spark, AWS, Linux

WORK EXPERIENCE

Data Science Intern – Sprint Overland Park, Kansas **May 2019 – Nov 2019**
Instrumental to the data collection, design, and implementation of a machine learning application which proactively predicts logic failures in Sprint's billing systems.

- Designed and taught a high-level class on machine learning for project managers, greatly improving communication between leadership and development teams.
- Created high performance HIVE and SQL pipelines to aggregate data from other departments of Sprint. Access to this data opened new opportunities for high-value customer analytics.
- Prototyped a tree-based model to predict billing errors. New model was able to detect four times as many issue types as current models in production.
- Designed a model interpretation program to decipher likely root cause of model predictions. Decreasing the amount of data required for further investigation by more than 80%.

Data Science Consultant - Upwork Plano, Texas **Oct 2018 – Aug 2019**
Long-term NLP research project with Sociologists at the University of Pennsylvania.
Implemented a machine learning model to identify the emotional content of social media profiles.

- Designed Python scripts to collect data from millions of social media profiles. Scripts were able to collect data further back in time than the official Twitter API.
- Implemented an emotion-classification model with PyTorch. Model predictions showed a relation between political scandals and population-wide emotional shifts.

Instructional Associate – General Assembly Plano, Texas **Mar 2019 – June 2019**
Taught data science fundamentals and best practices to data analytics professionals at Intuit.

- Solo taught a two-hour class focusing on the application of logistic regression and classification metrics to a class of thirty senior data analysts.

PERSONAL PROJECTS

- Scraped 1.2 million articles from Medium.com. Used data to publish a report containing visuals and performance metrics for other authors on the site.
- Designed a portfolio website in HTML/CSS. Manually set up an Apache server to host the website using knowledge of http requests, Bash, Linux, and cloud environments.
- Created a barebones SQL database system from the ground up. Coded in Python, the system is designed to compress data for storage in devices with extreme memory limitations.