

**Harrison S. Jansma**  
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## EDUCATION

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

**Aug 2018 – Aug 2020**

**Baylor University**  
BBA Business Fellows, Mathematics

**Aug 2013 – May 2017**

## TECHNICAL SKILLS

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

## WORK EXPERIENCE

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**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. Script were able of collecting data further back in time than the official Twitter API allows.
- Implemented an emotion-classification model with PyTorch. Model predictions showed 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

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- 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.