

# Michael Russell

MS in Computer Science | Data Science | Machine Learning | Python  
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## EDUCATION

### Weber State University — Master's in Computer Science

AUG 2021 - DEC 2022

My study emphasized applications of machine learning in data science contexts, especially natural language processing. I wrote my thesis on a comparison of feature-engineering techniques for nlp.

## Experience

### Hill Air Force Base, Utah — Computer Scientist

MAY 2019 - CURRENT

Developed software for data transfer and software updates for aircraft line-replaceable units. This included cable design, custom protocol handling, and reverse engineering of legacy systems.

### Blossomtree Software, Utah — App Developer

APR 2018 - JUL 2018

Worked on the development of a mobile app from the ground-up. Brainstormed app ideas, wrote mock-ups, wire-frames, and developed back-end databases using Amazon Web Services. Also worked on integrating back-end with user interface.

## PROJECTS

### A Comparison of Natural language Feature Engineering Techniques — Master's Thesis

In this work I evaluate feature-engineering techniques applied on raw natural language data in how they affect machine-learning algorithms' predictive performance.

To view my thesis online visit <https://cdm.weber.edu/digital/collection/SMT/id/398/rec/1>

### Kaggle Competitions and Notebooks — Kaggle

To see my work on Kaggle visit [kaggle.com/michaelrussell4](https://kaggle.com/michaelrussell4). Here I display some of my skills in data mining, preprocessing, visualization, and prediction.

## SKILLS

- Machine learning
- Descriptive analytics
- Data visualizations
- Feature engineering
- Natural language processing
- Predictive analytics

## TOOLS

- Pandas
- Numpy
- Matplotlib
- Plotly
- Scikit Learn
- spaCy
- NLTK
- Regex
- Prophet

## LANGUAGES

- Python
- C/C#/C++
- Java
- HTML/CSS/JS
- SQL

## CERTIFICATES

- Python for Data Science, AI & Development (IBM)
- What is Data Science? (IBM)
- NLP with Python for Machine Learning Essential Training (LinkedIn Learning)
- Data Science Orientation (Coursera)