

# DREW HIBBARD

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Data scientist with a passion for data exploration, analysis, and modeling. A fast learner always eager to test out the latest technologies. Four years of experience with turning raw data into visually appealing dashboards and actionable insights.

## Skills

### DATA VISUALIZATION

Tableau  
Matplotlib  
Seaborn  
Plotly

### LIBRARIES

NumPy  
Pandas  
Sklearn  
TensorFlow  
scrapy  
XGBoost  
nltk

### PROGRAMMING LANGUAGES

Python  
SQL

### DATABASES

SQL  
NoSQL (MongoDB)

### MACHINE LEARNING

Regression  
Gradient Boosting  
Random Forests  
Neural Networks  
Natural Language Processing (NLP)

### OTHER

Git

### SOFT SKILLS

Public Speaking  
Learning Quickly  
Communicating Results

## Experience

### Metis

Data Scientist

Sept. 2020 to Current

Metis is a ACCET-accredited immersive Data Science Program covering topics such as Statistics, Machine Learning, Programming, Communication and Design. Each project below was presented to the class and instructors.

#### Saving the Rainforest from Space

- Developed a convolutional neural network that can detect signs of deforestation from satellite imagery with 85% accuracy. With 40,000 images of the Amazon Rainforest from a Kaggle challenge, I was able to train the CNN and then apply it to current imagery with Google Earth Engine. These techniques can be applied to prevent further deforestation by alerting authorities of the locations of new roads and other signs of commercial activity. Primary skills: deep learning, TensorFlow, keras, cloud computing.

#### COVID-19 Dashboard

- Created two dashboards to monitor the coronavirus. First, an interactive Tableau dashboard in which users can see case and death trends down to the county level of their state of choice, as well as country-level trends for any country in the world. Second, an interactive web app built with Python and Streamlit that tracks additional trends such as hospitalizations, patients in ICU and on ventilators, and percent of tests returned positive.

#### Predicting Flight Delays with Machine Learning

- Developed an algorithm that predicts the odds of any US domestic flight being delayed by incorporating data such as airline, airport, weather, and more. The model is able to correctly predict 49% of true delays while also correctly predicting 85% of true non-delays. Primary skills: Python, Tableau, SQL, machine learning.

#### The Essence of Metal Music

- Analyzed the lyrics of the top 50,000 metal songs on Spotify, natural language processing (NLP). Performed Non-Negative Matrix Factorization (NMF) topic modeling to determine the four main lyrical topics in metal songs and tracked them in a dashboard over the years. Also created a Tableau dashboard that would show various lyrical statistics for the user's choice of artist, and a recommender system based on similarities in Spotify's audio features. Primary skills: NLP, nltk, MongoDB.

#### Beating the System - Daily Fantasy Sports

- Developed an algorithm to win daily NBA fantasy games by analyzing a player's historical and trending stats. The algorithm obtained an R squared value of 0.67 and an average error of just 8 fantasy points (compared to the standard deviation of 14). Primary skills: Python, machine learning.

### Wells Fargo

Account Manager - Business Intelligence

Nov. 2018 to Sept. 2020

- Converted and automated all reporting from Excel spreadsheets into interactive Tableau dashboards with SQL connections, helping management find actionable insights and determine strategy. This work earned me a Wells Fargo Pinnacle Award.
- Created Key Performance Indicators (KPIs) and Key Risk Indicators (KRI) and accompanying Tableau dashboards.
- Managed a project that updated information on over 1,000 aircraft in trust, identifying action items and significantly reducing risk. I routinely communicated results to senior management.

Leadership Pipeline Program Associate

Aug. 2016 to Nov. 2018

- Presented a proposal to utilize robotics in banking to over 200 influential team members at Wells Fargo headquarters.
- Developed a program that focused on engagement and mental health at work which placed 3rd as a team in the 2017 Wells Fargo Hackathon.
- Honed leadership skills such as communication, public speaking, teamwork, negotiation, and business writing.

## Education

University of Minnesota - Carlson School of Management  
B.S.B. in Finance 2016

May 2016

## Awards

Wells Fargo Commercial Capital · Pinnacle Award

Mar. 2020

Tableau Software · Tableau Certified Associate

July 2020