

Ted Carlson

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PROJECTS

UPS - Industry Practicum

October 2018 - June 2019

- Created a model in Python using internal data and web APIs that successfully predicted 85% of failed deliveries.
- Built an algorithm to detect routes experiencing anomalous behavior and flag them for improvements.

Shortest Track - Capstone Project

October 2019 - December 2019

- Predicted health outcomes of over 200 million patients based on past hospital visits and demographic information.
- Combined disparate data sources to create a recurrent neural network which identified patients that were at risk for Dementia with a 99% accuracy and 17% precision score.

[Student Loan Research Blog](#)

November 2019

- Won the right to publish my research project using k-means clustering to study the student loan system in the U.S.
 - Used HTML and Javascript to code an interactive data story, and used D3 to create dynamic data visuals.
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SKILLS

- *Programming Languages:* Python, R, SQL, Java, Javascript, CSS, HTML, Bootstrap, Django, scikit-learn and D3
 - *Tools:* Git, AWS, Docker, Flask, Hadoop, Hive, Spark, Tableau, ArcGIS, Heroku, TensorFlow/keras, PyTorch
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EXPERIENCE

Exact Sciences

Madison, WI

Data Scientist

January 2020 - Present

- Modeled our sales rep effectiveness using scikit learn to determine the value of calls across health specialties.
- Built a Tableau dashboard for leadership to track sales targets, target new physicians and analyze customer habits.
- Coded a fuzzy matching algorithm in Python to join unstructured data in our marketing channel with over 80% recall.

UPS

Louisville, KY

Technology Engineering Intern

June 2019 - September 2019

- Created a machine learning model in Python using keras to analyze key driver and route performance measures.
- Analyzed time-series data in Python to monitor the progress of 250,000 drivers toward their performance goals.

American Family Insurance

Madison, WI

Reporting Analyst

May 2014 - June 2018

- Led a team developing a Tableau dashboard to measure the performance of our telematics data program, which directly measured the driving performance of 20,000 customers through a smartphone app.
 - Communicated with Sales teams across all of our operating states to coordinate the rollout of our program and teach them to use the dashboard to find ways for them to effectively sell the discount program in their area.
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EDUCATION

Northwestern University

Evanston, IL

Master of Science in Analytics

December 2019

Key Coursework: Data Mining, Big Data Analytics, Deep Learning, Text Analytics and Social Network Analysis

University of Wisconsin - Madison

Madison, WI

Bachelor of Science in Mathematics and Statistics

May 2014