

# MELISSA ANTHONY

## DATA SCIENTIST

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## Skills

### DATA

Machine Learning

Natural Language Processing

Oracle

Google/AWS

Classification Models

Regression Models

Supervised Models

Unsupervised Models

Statistics

Data Distributions

Real-World Analysis

Times-Series

Reinforcement Learning

Tensorflow

Keras

Big Data

Tableau

Data Workflows

Data Architecture

Relational Databases

Data Mining

Databricks

### CODING

Python

SQL

Relational Databases

R

Q language

### BUSINESS

Project Management

Asset Management

Management Experience

Business Communication

Technical Writing

Presentation Skills

## Activities

Leadership Courses through Mountain States Employers Council (MSEC)

- Interpersonal Mastery
- Leading Teams
- Project Management I & II

Area Groups

- Great Data Minds
- Denver SQL Server User Group
- Front Range Pythoners
- Boulder Women in Machine Learning & Data Science

## Summary

Veteran Data Specialist who thrives in challenging roles where I can creatively build narratives from data to form empathetic solutions. My social sciences background drives my passion for discovering what makes us human. My long history in databases has driven me to be a Data Science fellow where I have applied the latest data science and data analyst methods. From engineering predictive analytics, NLP, visualizations, and machine learning algorithms to real-life complex problems.

## Education

General Assembly  
Professional Certificate Data Science 2020

University of Denver  
Master's Certificate GIS 2008

University of Colorado at Colorado Springs  
Bachelor of Arts Anthropology/Geography 2004

## Employment

Xcel Energy Denver, CO.  
Quantitative Research Analyst Dec. 2020 to Current  
Using data from multiple sources to create dashboards for presentation to analysts and executives. Analyzing meter data and financial information for future customer trends. Use of GIS to spot trends in meter usage, deployment, customer patterns. Write technical documentation of the procedures I am developing for archiving and to train other colleagues. Learn as I go programming and products like Python, R, SQL, Oracle, Databricks, kx and Q language, arcgis, QGIS, SAC, PowerBI.

Cinefuse Denver, CO.  
Data Scientist Sept. 2020 to Dec. 2020  
Part-time Data Scientist / Analytics Consulting at an online movie community website to increase users to a projected 200,000 and user interaction by 125%. Using Python, AWS, SQL, and machine learning models.

General Assembly Denver, CO.  
Data Science Fellow June 2020 to Sept. 2020  
Full-time, 580+ hours, total immersive Data Science program covering topics such as Predictive Analytics, Advanced Statistical Methods, Data Visualizations and Machine Learning with a heavy focus on programming in Python and SQL.

GeoMega Boulder, CO.  
GIS Specialist Mar. 2020 to Mar. 2020  
GIS contract specialist (through Scion Staffing) providing deliverables as well as Python/SQL scripts support to scientists in commercial and litigation mining solutions.

Intermountain REA Sedalia, CO.  
GIS Supervisor Feb. 2007 to July 2018  
Supervisor reporting on metrics to executive level management that led to the strategic direction of the company, consisting of annual revenues of \$300 million, a non-profit electric coop with a territory of over 5,000 sq. miles through 11 counties, with over 160,000 customers.

SWCA Broomfield, CO.  
Archaeologist May 2006 to Aug. 2006  
Project archaeologist to survey and record in Colorado and Wyoming for oil and gas pipeline projects projected to cost over \$100k and to be performed within strict timelines.

Centennial Archaeology Fort Collins, CO.  
Archaeologist May 2004 to Aug. 2005  
Multiple project archaeologist to excavate and survey prehistoric finds throughout Colorado. Including Reuter-Hess, a \$170 million dollar project completed within a strict timeline.

## Projects

Help in a SNAP! 2020  
Random Forest/Gradient Boost in Vote ensemble: analyzed 400k SNAP records with 800 features, reduced to 31 columns with 95% accuracy of predicting who will be on SNAP per state to detect risk assessment during COVID. Includes a GIS analysis.

Behind the Mask 2020  
Neural Network: Built an image classifier/Artificial Intelligence model to detect people wearing masks or not compared to a twitter scrape of images plotted on a map for prediction of where Coronavirus is spreading. Includes a GIS analysis.

Oh the Horror! 2020  
Natural Language Processing : Used NLP to train a classifier to automatically classify Reddit posts, Scraped social redds for sentiment analysis to recommend a news site to friends like horror movies.

Ames Housing 2020  
Regression and other data analyst techniques: Designed a predictive model leveraging regression techniques to predict house prices.

Relational Database Management 2007 to 2018

- Data Management and monthly reporting on ETL analytics for GIS datasets into several systems based on customer requirements including data sources from CIS, Engineering, SCADA Operations, AutoCAD, cloud data, API, and mobile applications.
- Collaborative: Innovation and engagement in technical troubleshooting and quality assurance of the database including data sets like taxable districts over 300 realtime versions in using database technologies like Oracle, SQL Server, and information security such as granting security access to users.
- Trustworthy: created system-wide models for updates and database design using sensitive information like consumer's financial information while providing customer service for clients.