

# Melissa Anthony

Data Scientist

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Accomplished professional with talent for delivering valuable insights through data analytics and advanced data-driven methods. Skilled in utilizing engineering predictive analytics, NLP, visualizations, and machine learning algorithms to provide data-driven solutions to real-life problems.

## Education

### Bachelor of Arts in Anthropology / Geography

University of Colorado

## Certifications

### Professional Certificate, Data Science

General Assembly  
2020

### Master's Certificate, GIS

University of Denver  
2008

## Professional Training

### Interpersonal Mastery

Mountain States Employers Council

### Leading Teams

Mountain States Employers Council

### Project Management I & II

Mountain States Employers Council

## Affiliations

Great Data Minds

Denver SQL Server User Group

Front Range Pythoners

Boulder Women in Machine

Learning & Data Science

## Technical Proficiencies

### 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

### Coding:

Python, SQL, Relational Databases

### Business:

Project Management, Asset Management, Team Leadership, Business Communication, Technical Writing, Presentations

## Experience Highlights

### Cinefuse, Denver, CO

Data Scientist

9/2020 – Present

Hired into part-time role to develop and present insights, analytics, reports, and recommendations to grow online users and expand user interaction. Utilize Python, AWS, SQL, and machine learning models to analyze and process complex data sets.

- Delivered actionable insights from complex data sets, achieving 30% increase in users and user interaction.

### General Assembly, Denver, CO

Data Science Fellow

6/2020 – 9/2020

Acquired and applied knowledge of current and emerging data science practices, to include Predictive Analytics, Advanced Statistical Methods, Data Visualizations, and Machine Learning along with strong focus on programming in Python and SQL.

- Spearheaded projects to integrate and analyze massive data sets, develop predictive models, and build narratives to form solutions.
- Completed capstone project utilizing machine learning to develop predictive model, technical documentation, and stakeholder presentation.

### Scion Staffing, Boulder, CO

GIS Specialist

3/2020 – 3/2020

Took on short-term assignment with GeoMega to provide GIS, data, and programming support to scientists in commercial and litigation mining solutions.

- Utilized GIS software to analyze spatial and non-spatial information, delivering GIS maps for trial exhibits and reports.
- Analyzed SQL and Python scripts, identifying and resolving errors.

**Intermountain REA, Sedalia, CO**  
GIS Supervisor

**2/2007 – 7/2018**

Provided training and leadership for team of GIS specialists and technicians for non-profit electric coop with annual revenues of \$300M and over 160K customers. Coordinated multiple GIS tasks/projects. Maintained communication among senior managers and stakeholders.

- Performed technical troubleshooting and quality analysis of relational database housing 300+ real-time versions at any single point in time, ensuring accuracy and validity of data points.
- Conducted monthly reporting on ETL analytics for datasets into enterprise systems, supporting executive-level strategic decision making.
- Created, established, and maintained departmental procedural documentation system, improving data creation and maintenance in GIS databases.

## **Additional Experience**

**Archeologist**, SWCA, Broomfield, CO

**Archeologist**, Centennial Archeology, Fort Collins, CO

## **Projects**

### **Help in a SNAP!**

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. Included GIS analysis.

### **Behind the Mask**

Built image classifier/Artificial Intelligence model to detect people wearing masks or not compared to Twitter scrape of images plotted on map for prediction of where Coronavirus is spreading. Included GIS analysis.

### **Oh the Horror!**

Used Natural Language Processing (NLP) to train a classifier to automatically classify Reddit posts. Scraped social Reddits for sentiment analysis to recommend news site to friends like horror movies.

### **Ames Housing**

Designed predictive model leveraging regression techniques to predict home prices.