

Melissa Anthony

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Experience

Experienced Data Scientist with Expertise in Machine Learning, NLP, and GIS Analysis

Quantitative Research Analyst at Xcel Energy Denver, CO (Remote) • 2020 to Present
Data Analytics Professional Specializing in Dashboard Creation, GIS Analysis, & Technical Documentation.

- Use data from multiple sources to create dashboards for presentation to analysts and executives.
- Analyze meter data and financial information for future customer trends.
- Use 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, ESRI ArcGIS, QGIS, SAC, PowerBI.

Part-time Data Scientist / Analytics Consulting at Cinefuse Denver, CO (Remote) • 2020

- Increase users to a projected 200,000 and user interaction by 125% using Python, AWS, SQL, and machine learning models.

GIS Contract Specialist at GeoMega Boulder, CO • 2020

- Provide deliverables as well as Python/SQL scripts support to scientists in commercial and litigation mining solutions.

GIS Supervisor at CORE Electric Sedalia, CO • 2007 to 2018
Expert GIS Supervisor Driving Strategic Initiatives and Operational Success.

- Report on metrics to executive level management that led to the strategic direction of the company.
- Maintained all GIS data for a non-profit electric coop with a territory of over 5,000 sq. miles through 11 counties, with over 160,000 customers.

Project Archaeologist at SWCA & Centennial Archaeology Denver, CO • 2011 to 2013
Expertise in Cultural Resource Management,

- 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.
- Excavate and survey prehistoric finds throughout Colorado, including Reuter-Hess, a \$170 million dollar project completed within a strict timeline.

Data Science Projects

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. <https://www.melissa-anthony.com/help-in-a-snap>

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. <https://www.melissa-anthony.com/behind-the-mask>

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. <https://www.melissa-anthony.com/oh-the-horror>

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

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.

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 (RDBMS), R, Q language

Business: Project Management, Asset Management, Management Experience, Business Communication, Technical Writing, Presentation Skills.

Education

Professional Certificate Data Science

General Assembly 2020

Master's Certificate GIS

University of Denver 2008

Bachelor of Arts Anthropology & Geography

University of Colorado
At Colorado Springs 2004