

Michael Murdock

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EDUCATION

University of Colorado Boulder, Boulder, CO

May 2023

BS in Information Science

- Minor in Business & Financial Analytics at Leeds
- Cumulative GPA: 3.9
- Relevant Courses: Applied Machine Learning, Statistics, User-Centered Design, Financial Analytics, Computational Reasoning, Decision Science, Information Exploration, Information Visualization, Data Science and Biostatistics, Data Science Bootcamp, Python Programming

EXPERIENCE

Handshake, Denver, CO

Jun 2022 - Aug 2022

Data Engineer Intern

- Created an incremental data model leveraging DBT for jobs and postings, reducing build time by 30%
- Streamlined DBT model management with efficient Airflow DAGs, ensuring accurate dependency mapping and 20% faster query execution
- Integrated 10+ data assets within a new Jobs Explore on Looker, enabling recession impact monitoring and valuable data for stakeholders
- Delivered 5 premium job measures for employer metric comparison through stakeholder collaboration in an agile workflow

University of Colorado Boulder, Boulder, CO

Aug 2021 - May 2022

OIT Analyst

- Analyzed 100+ survey responses from students and professors to identify key strategies for maximizing student engagement
- Improved student satisfaction by 25% through leading professors in classroom set-up and troubleshooting
- Co-created actionable documentation with two team members to improve hybrid class engagement

BCI, Denver, CO

Feb 2021 - Jun 2021

Data Analyst Intern

- Collaborated with Data Relevance and Call Center teams to optimize data exports and establish 3 KPIs
- Achieved company-wide automation of weekly reports with Git/GitHub and Python scripts, enhancing efficiency and accuracy
- Produced visualizations in Python (Matplotlib/Seaborn) and Tableau to craft impactful stories and present to management

PROJECTS

Vehicle Image Detection, Python, pandas, NumPy, Matplotlib, TensorFlow, sklearn

Aug 2021 - Sep 2021

Boulder

- Imported vehicle dataset and preprocessed images with CV2 and TensorFlow
- Implemented decision tree, RFC, and CNN models with scikit-learn and TensorFlow to classify images as vehicles
- Visualized subset of image classifications and new instances with matplotlib for evaluation
- Assessed accuracy of models; led data training by segregating data into training and testing sets, achieving model accuracy of ~85%

Congressional Spending Analysis, Python, pandas, Jupyter, Matplotlib, seaborn

Aug 2020 - Oct 2020

Denver

- Imported 100,000+ data points depicting representative expenditures and manipulated/analyzed with Pandas and NumPy
- Designed advanced Seaborn visualizations utilizing Matplotlib for annotations and customizations
- Created and published Medium blog post comparing congressional expenditures across parties, driving 100+ views and promoting transparency

TECHNICAL SKILLS

- Languages: Python, SQL (BQ, MySQL, Postgres), HTML, JavaScript, R
- Frameworks: Node.js, Bootstrap
- Developer Tools: Git, Docker, Airflow, Jira, Confluence, Looker, Google Cloud Platform, VS Code, Tableau
- Libraries: pandas, NumPy, Altair, Matplotlib, scikit-learn, TensorFlow, SQLite