Jenica Andersen

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EXPERIENCE

The Burning Man Project   Remote
Off Fossil Fuels Analyst   June 2023 to June 2024
- Developed predictive models using Python to analyze event participant behavior and emission trends.
- Designed and implemented data gathering processes with cross-departmental stakeholders.
- Created interactive tools to support data-driven decision-making across departments.

Metis   Remote
Data Scientist   Dec. 2021 to Aug. 2022
- Completed a 7-month immersive program, building a portfolio of seven end-to-end projects.
- Focused on machine learning, business intelligence, predictive modeling, and data engineering.
- Developed a Streamlit application for real-time data analysis and visualization.

AIM GeoAnalytics   Missoula, MT
Analyst, Senior Geologist   Dec. 2013 to Dec. 2019
- Collected, cleaned, and analyzed geological data to build predictive models and probability maps.
- Led the adoption of data visualization tools like Tableau and PowerBI within the organization.
- Managed big data projects, resulting in the creation of a subsidiary company.

KEY PROJECTS

Predictive Modeling for Environmental Impact Analysis
- Built predictive models to classify and analyze environmental data for sustainability projects.
- Utilized machine learning techniques such as logistic regression, kNN, and random forest models.

The State of ESG: Using NLP to Illuminate Modern Corporate Sustainability Issues
- Conducted unsupervised natural language processing (NLP) on 1,000 shareholder resolutions to model key topics in corporate sustainability.
- Performed sentiment analysis to understand stakeholder concerns and priorities related to environmental, social, and governance (ESG) issues.
- Developed a custom Streamlit application to visualize insights and enable interactive exploration.

Deep Learning for Conservation: Classifying Drone Images from Protected Lands
- Developed custom convolutional neural networks to classify drone images for conservation efforts.
- Achieved 99.3% accuracy in identifying target vegetation in protected areas.

Confident Short Term Real Estate Investing: Building Permit Trends that Investors Should Not Ignore
- Gathered publicly available, municipal data on building permits and real estate values over time
- Utilized Tableau and Google Sheets to join multiple datasets, and discovered construction and cost trends across neighborhoods

EDUCATION

Dartmouth College
Master's of Science, Earth Sciences
Thesis: Modeled the fate of sediment-sorbed mercury in a regulated river.

National Geothermal Academy
Certificate in Geothermal Energy Production

University of Potsdam, Germany
Bachelor's of Science, Dual Degree in International Field Geosciences

University of Montana, Missoula
Bachelor's of Science, Geosciences
Bachelor's of Arts, Creative Writing
Watkins Scholar: Interdisciplinary project Riverside Geology: A Guide to the Geology of the Clark Fork River.

ADDITIONAL INVOLVEMENT

Clark Fork School · President of Board of Directors   2018 to 2023
Missoula, MT

Women in Data Science (WiDS), Puget Sound · Sponsorship Team and Co-Lead of Marketing Team   2022 to Current
Seattle, WA

Toastmaster's International · Club President   2017 to 2020
Missoula, MT

SKILLS

PROGRAMMING
Python
SQL
json
Streamlit
Basic HTML

PROJECT MANAGEMENT
Agile Project Management
Stakeholder Engagement
Public Speaking
Technical Writing
Slack
Asana
Google Suite

VISUALIZATION
Tableau
PowerBI
MatplotLib
Seaborn
Adobe Illustrator/Photoshop

MACHINE LEARNING
Natural Language Processing
Deep Learning
Sentiment Analysis
Linear Regression
TensorFlow/Keras
Image Classification
Logistic Regression

MARKETING
MailChimp
Squarespace
Buffer

GEOSPATIAL
ArcGIS/QGIS
ERDAS Imagine
GoogleEarth
ESRI

CLOUD COMPUTING
GitHub
AWS (S2 and EC3)
Trained in Hadoop

LANGUAGES SPOKEN

English · Native Speaker

German · Intermediate Fluency