Ben Polzin

DATA SCIENTIST

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SKILLS

Python, SQL, Machine Learning, Deep Learning, Predictive Analytics, Natural Language Processing, Computer Vision, Automation, Optimization, TensorFlow, AWS, Hadoop, Spark, numpy, pandas, scikit-learn

EDUCATION

Coursera Deep Learning Specialization, May 2021

DeepLearning.AI TensorFlow Developer, May 2021

Diploma, Data Science, BrainStation, Oct 2020

B.S. Petroleum Engineering, Colorado School of Mines, May 2016

PROFESSIONAL EXPERIENCE

Learning Assistant l Trilogy Education
Apr 2021 - Present, 2U/Trilogy Education, Des Moines, IA (Fully Remote)

- Learning Assistant for the new FinTech program. Mentoring and assisting students with any course-related issues they may have.
- Curriculum includes SQL, Python, numpy, pandas, sci-kit learn, TensorFlow, machine learning, cryptocurrency, time series analysis, and financial analysis.

Teaching Assistant l Data Science Diploma Program BrainStation
Oct 2020 - Feb 2021, BrainStation, Des Moines, IA (Fully Remote)

- Hosted live code along sessions to reinforce fundamental data science and machine learning concepts including Python, Pandas, sci-kit learn, TensorFlow, AWS, SQL, R, and Tableau.
- Assisted in coordination and delivery of lesson material and projects as well as providing marks, feedback, and mentorship to students.

The Orphaned Well Project l Director of Technology
Sep 2020 - Present, Des Moines, IA (Fully Remote - Denver, CO Headquarters)

- Non-Profit Organization dedicated to properly decommissioning and environmentally reclaiming orphaned oil and gas wells throughout the United States.
- Coordinating data ETL pipelines/workflows and organizational technology strategy for new start-up.
- Currently compiling database of nationwide abandoned wells to be used for BI visualization tools to help identify and prioritize projects.

Production Engineer l Newfield Exploration / Encana Corporation
Jul 2016 - NOV 2019, Houston, TX

- Oversaw production operations of nearly 500 producing wells in the Uinta Basin of North Eastern Utah.
- Maintained stability of operations and merged data workflows throughout the Encana/Newfield merger.
- Leveraged extensive data analysis to return 30 temporarily shut-in wells back to production as well as identified and prioritized future capital projects.
- Spearheaded multiple process improvement projects from inception to implementation including a revamped and enhanced data ETL pipeline and data analysis dashboard.

PROJECTS

Time Series Analysis with TensorFlow, ARIMA and Prophet
May 2021, Portfolio Project, Des Moines, IA (Fully Remote)

- Demonstrated the entire time series analysis workflow (data exploration, cleaning, preprocessing, windowing, and forecasting) and utilized the ARIMA and Facebook Prophet model for advanced predictions with cutting edge machine learning tools.

Natural Language Processing and Optical Character Recognition with TensorFlow and BERT
May 2021, Portfolio Project, Des Moines, IA (Fully Remote)

- Demonstrated the entire NLP workflow with BERT (data loading, preprocessing, tokenization, transfer learning, and predictions) and OCR with pytesseract achieving model accuracy improvement from 75% to 94%.

Computer Vision with TensorFlow
May 2021, Portfolio Project, Des Moines, IA (Fully Remote)

- Demonstrated the entire computer vision workflow (data loading, preprocessing, model tuning, optimization, and predictions) achieving model accuracy improvement from 75%-90%.

MyGamePass l BrainStation Diploma Capstone Project
Nov 2020, Portfolio Project, Des Moines, IA (Fully Remote)

- Recommender system for video games built with both collaborative and content-based filtering by cosine similarity.