Ryan M. Pedersen | Data Scientist

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PROFESSIONAL SUMMARY

Analytical and adaptable data scientist with a background in aerospace engineering. Ability to help companies transition into the future by providing unique solutions to long present problems by using machine learning. Experience working in startup environments, optimizing business efficiency and Python.

SKILLS

Software: Python, MatLab, Microsoft Excel, SQL, Tableau
Python Libraries: Numpy, Pandas, Matplotlib, Seaborn, Scikit Learn, Tensorflow, Keras
Proficiencies: Machine Learning, Neural Nets, Predictive Modeling, Data Visualization, Data Cleaning, Web Scraping

PROJECTS

MLB Betting Model

- Created a Linear Regression model using pitching and batting statistics pulled from Fangraphs to predict daily scores for each MLB game.
- Compared bettings lines of major sportsbooks to model predictions in order to generate a list of best bets.

Subreddit Classification Model

- Created a natural language processing (NLP) model to determine which subreddit a post or comment originated from.
- Used Pushshift API in order to gather posting data, and cleaned in Python.

WORK EXPERIENCE

General Assembly — **Los Angeles, CA**
Data Science Fellow — 5/22-8/22

- Perform visual and statistical analysis on data using Python and its associated libraries and tools.
- Build and implement appropriate machine learning models and algorithms to evaluate data science problems.
- Utilize SQL for data control including queries, joins, retrieval, and storage.
- Create Tableau dashboards for user-friendly dashboards with meaningful data visualization.

Additive Rocket Corporation — **La Jolla, CA**
Injector Plate Design Lead — 3/15-4/20

- Research and development of additively manufactured rocket engines in order to lower the cost of putting nano-satellites into low earth orbit for small companies and/or university groups.
- Utilized iterative design process utilizing self-collected data to improve performance.
- Specialized in novel injector plate designs focusing on improving combustion efficiencies, mass distribution, injector feed instabilities, combustion instabilities, and reducing weight.
- Created a business plan for designing, certifying, and selling highly customized 3-D printed engines.

EDUCATION

- **General Assembly: Data Science immersive**
- **University of California, San Diego** — **Fall 2013 - Spring 2017**
  - Structural Engineering
- **Relevant Coursework**: Statistics, Reliability, and Probability, Linear Algebra, Differential Equations

Intellectual Property

- Patent on a structural heat exchanger (Application No. 15/694540)
- Patent on a fractal fluid passage apparatus (Application No. 15/699851)
- Patent on an additively manufactured combustion engine (Application No. 15/694686)