

John O'Donnell

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Education

Flatiron School: Data Science Bootcamp	April 2020 - Jan 2021
IBM: Data Science Professional Certificate	February 2020
The University of Texas at Dallas <i>Master of Business Administration</i>	January 2017 – March 2019
The University of Texas at Arlington <i>Master of Petroleum Geoscience</i>	August 2016 – May 2018
Texas A&M University <i>Bachelor of Science in Geology</i>	August 2012 – May 2016

Experience

Data Scientist <i>ClassPass</i>	June 2021 – Present
<ul style="list-style-type: none">• Daily use of SQL in a Postgres OLAP environment• Developed similarity models for class genres used in recommendation system• Aided in testing new products / strategies with A/B testing• Built interactive dashboards in Tableau	
Geoscientist <i>Oasis Petroleum</i>	June 2018 – March 2021
<ul style="list-style-type: none">• Responsible for organization, analysis, and presentation of large, multidisciplinary, disparate datasets for over 15,000 oil and gas wells, each with monthly production values for oil/water/gas numbering in the millions of rows of data• Analysis completed exclusively in Python with Jupyter Lab using packages including NumPy, Pandas, Sci-kit Learn, SHAP, math, and Plotly• Using data visualization packages such as Plotly, created meaningful and intuitive visualizations that conveyed complex relationships in a concise manner that drove large-scale change in our development program• Used log data and geologic maps (> 200,000 records) to create cluster analysis workflows defining geologic rock types that translate into higher/lower productivity in areas around the petroleum basin• Extensive experience with tree-based ensemble methods such as Random Forest to untangle complex relationships between geologic and engineering datasets, leading to a more nuanced perspective of our asset and how to develop it• Experience with Shapley analysis to further explain the relationships interpreted by tree-based methods• Created and presented material stepping through complex machine learning algorithms and findings to senior management teams and non-technical staff to build confidence in results of the models built	

Relevant Academic Coursework:

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| <ul style="list-style-type: none">• Calculus 1-3• Differential Equations• Newtonian Mechanics for Engineering• Electricity and Magnetism for Engineering• Quantitative Risk Analysis• Financial Management• Advanced Engineering Economy | <ul style="list-style-type: none">• Enterprise IT Architecture• Information Technology for Management• Data Visualization• Managing Digital Strategy• Corporate Finance• Business Economics• Interactive and Digital Marketing |
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Relevant Skills:

- Proficiency in Python and SQL
- Experience with version control software (Git)
- Strong time-management skills and a curious, proactive mindset
- Working knowledge of machine learning algorithms and their various applications
- Ability to work in a multidisciplinary team, understand difference sources of data as well as their biases and uncertainties
- Strong communication skills, ability to navigate complex environments and explain them in an intuitive, succinct manner