

Education

Flatiron School: Data Science Bootcamp	April 2020 - Present
Coursera: Data Science Professional Certificate	February 2020
The University of Texas at Dallas <i>Master of Business Administration</i>	January 2017 – March 2019
<ul style="list-style-type: none">GPA: 3.7	
The University of Texas at Arlington <i>Master of Petroleum Geoscience</i>	August 2016 – May 2018
<ul style="list-style-type: none">GPA: 4.0	
Texas A&M University <i>Bachelor of Science in Geology</i>	August 2012 – May 2016
<ul style="list-style-type: none">GPA: 3.2	

Experience

Geologist Data Scientist <i>Oasis Petroleum, Houston, TX</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 across multiple basins, each with monthly production values for oil/water/gas totaling over 1 million recordsAnalysis completed exclusively in Python with Jupyter Lab using packages including NumPy, Pandas, Sci-kit Learn, SHAP, math, and PlotlyUsing 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 programUsed electric well 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 basinExtensive 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 itExperience with Shapley analysis to further explain the relationships interpreted by tree-based methodsCreated 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 1-3Differential EquationsNewtonian Mechanics for EngineeringElectricity and Magnetism for EngineeringQuantitative Risk AnalysisFinancial ManagementAdvanced Engineering Economy | <ul style="list-style-type: none">Enterprise IT ArchitectureInformation Technology for ManagementData VisualizationManaging Digital StrategyCorporate FinanceBusiness EconomicsInteractive and Digital Marketing |
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Relevant Skills:

- Strong Python programming skills
- Working knowledge of SQL
- Strong time-management skills and a proactive mindset, self-taught data scientist
- Working knowledge of machine learning algorithms and their 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