PetroSkills

Introduction to Energy Data Science - IEDS

COURSE

About the Course

This course focuses on the application of programming visualizations and data science solutions to the energy industry. By the end of this course, you will be able to develop energy-focused dashboards and visualizations using free open-source Python packages such as Numpy, Pandas, and Matplotlib.

Target Audience

Subject Matter Experts with programming experience in Python

You Will Learn

Software engineering skills, & interactive dashboard building using PyData software stack (NumPy, SciPy, Pandas, etc.) on petroleum data sets.

Course Content

- Why Open-Source Software?
- The Jupyter Project
- Basic Unix/Linux File System Commands
- git and Github
- Essential Python Review
- Functions
- Lists, Tuples, and Dictionaries
- Loops and Conditionals
- Classes and Object-Oriented Programming
- Intake
- NumPy
- SciPy
- Pandas
- matplotlib
- Bokeh
- Panel
- Machine Learning Overview
- Scikit-Learn

- Code Quality & Reproducibility
- Prelude to Advanced Topics

Product Details

Categories: Upstream

Disciplines: Data Management, Science and Analytics

Levels: Basic

Product Type: Course

Formats Available: In-Classroom

Instructors: John Foster   Michael Pyrcz

In-Classroom Format

29 Jul '24 31 Jul '24 - | Course | In-Classroom (in Houston)	$3,475.00