Core Python for Data Science

Course Overview:

This class establishes the foundations of Python, a programming language that has become very popular in Data Science circles (and elsewhere too). We'll cover the absolute basics of Python, specifically:

- The syntax of the language.
- Creating variables and handling different types of data.
- Using operators and functions to manipulate data.
- Using control flow: loops and if statements.
- Building and using custom functions.

These tools are foundational to *all* forms of Python programming, not just Data Science. However, this strong foundation will set learners up for success later in data science when they'll be using libraries such as Pandas, SKLearn, Tensorflow, and more.

Course Duration: This course will be delivered in 1 day

Prerequisites:

- None, this is an introductory level course.

Course Objectives:

- Create variables.

- Manipulate the values of those variables using operators.

- Cause specific portions of code to execute, repeat, or be ignored based on the values in variables.

- Represent complex data with lists and dictionaries.

- Create custom functions and execute both custom and built-in functions.

This course does include:

- Foundational, introductory level Python material.

This course does NOT include:

- Working with large datasets.

- ETL

- Statistical analysis

Course Outline:

- The syntax of the Python programming language.
- Creating variables and handling different types of data in Python.
- Using operators and functions to manipulate data in Python.
- Using control flow: loops and if statements in Python.
- Building and using custom functions in Python.