

Terminal

- Directories
- Terminal commands
- Installation and setup
- Jupyter notebook

Git/GitHub

- Cloning repositories
- Version control
- Branching, pull requests, working with a team

Markdown

- Intro to basic syntax (i.e. headings, lists, code blocks, embedding links and images)

Programming Concepts

- Iteration
- Conditional Statements
- Sequences (Array, List)
- Data Types (Strings, numbers, logical)

Python 1 - Intro to Python

- Integrating programming concepts
- Dictionaries
- Lists
- Tables
- Operational and Logical Operands

Python 2 - Functions

- Writing functions
- Try-catch

Pandas & Seaborn

- Dataframes (creation i.e. importing and starting from scratch, manipulation, merging, etc.)
- Graph types and capabilities
- Graph properties (i.e. data point size, colour, x and y labels, title, subheading, font size)

Excel

- Excel commands and functions

Tableau

- Tableau capabilities
- Creating effective dashboards

Data Visualisation & Data Analysis

- Exploratory Data Analysis
- Graph Types and uses for each one

Statistics & Probability

- Estimation and Confidence Intervals
- Simulations
- Distribution (i.e. standard, normal)
- Central Limit Theorem
- Standard Deviation
- Sampling
- Randomness
- Prediction

R

- Lists
- Tables (Creating and manipulating rows/columns)
- Sampling
- Graphs