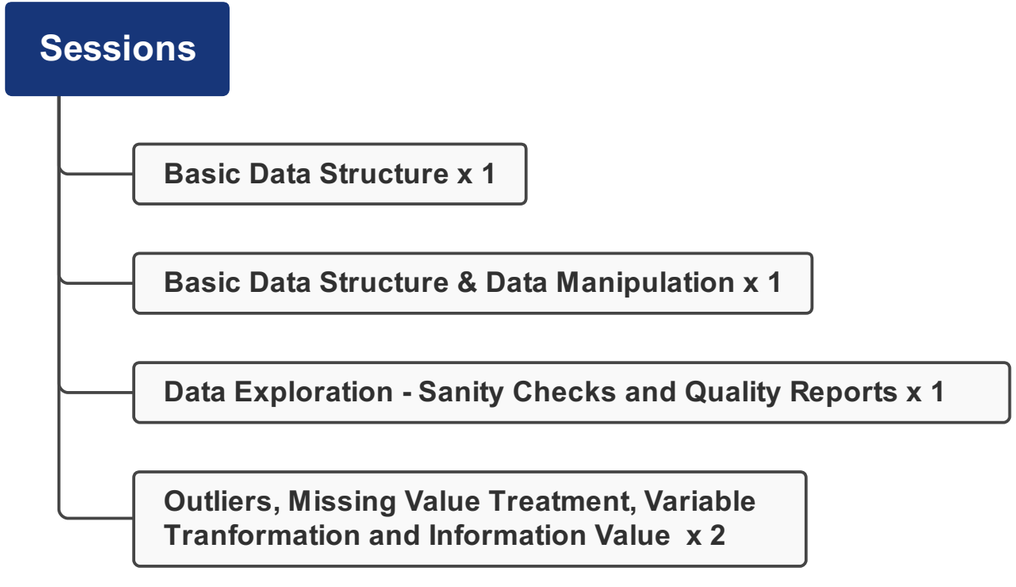
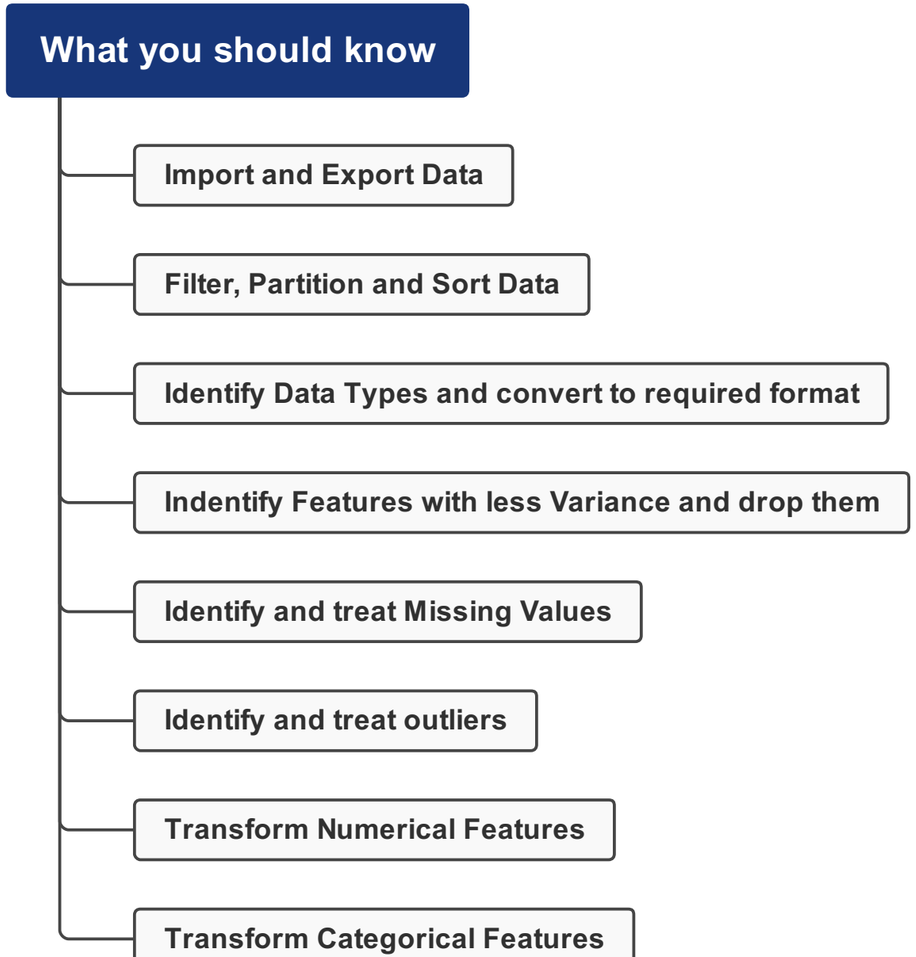

Sessions
Basic Data Structure x 1
Basic Data Structure & Data Manipulation x 1
Data Exploration - Sanity Checks and Quality Reports x 1
Outliers, Missing Value Treatment, Variable Tranformation and Information Value x 2


What you should know
Import and Export Data
Filter, Partition and Sort Data
Identify Data Types and convert to required format
Indentify Features with less Variance and drop them
Identify and treat Missing Values
Identify and treat outliers
Transform Numerical Features
Transform Categorical Features

Python for Machine Learning

- Import & Export Data
  - Data Types
    - Primitive
      - Number
        - Integer
        - Float
      - Boolean
      - String (also Object)
    - Containers
      - Lists
      - Tuples
      - Sets
      - Dictionary
      - Array
      - Numpy Array
    - Datatime
  - How to convert data types
    - Number to String
    - String to Number
    - String to Datatime
- Basic Data Manipulation
  - Level 1
    - Filter
    - Select
    - Sort
    - Create Basic Features
    - Summary
  - Level 2
    - Grouping
    - Merge
    - Concatenate
    - Create Intermediate Features
- Transition to Machine Learning
  - Feature Selection
    - Identify Low Variance Features and Drop them
  - Numerical
    - Missing Value - Identify and Impute
    - Outlier - Identify and Impute
    - Transformation
      - Non Normal to Normal or Scale to same range
    - Binning
  - Categorical
    - Missing Value - Identify and Impute
    - Outlier - Identify and Impute
    - Dummy Variable Creation
      - One Hot Encoding
    - Encoding
      - Ordinal Encoding
      - Mean Encoding
  - For Modelling
    - Train Test Split
    - Create DataFrames
    - Evaluate Models
    - Merge Data