Data Wrangling

- Data formatting is critical for making data from various sources consistent and comparable.

- Master the techniques in Python to convert units of measurement, like transforming "city miles per gallon" to "city-liters per 100 kilometers" for ease of comparison and analysis.

- Acquire skills to identify and correct data types in Python, ensuring the data is accurately represented for subsequent statistical analyses.

- Data normalization helps make variables comparable and helps eliminate inherent biases in statistical models.

- You can apply Feature Scaling, Min-Max, and Z-Score to normalize data and apply each technique in Python using pandas' methods.

- Binning is a method of data pre-processing to improve model accuracy and data visualization.

- Run binning techniques in Python using numpy's "linspace" and pandas' "cut" methods, particularly for numerical variables like "price."

- Utilize histograms to visualize the distribution of binned data and gain insights into feature distributions.

- Statistical models generally require numerical inputs, making it necessary to convert categorical variables like "fuel type" into numerical formats.

- You can implement the one-hot encoding technique in Python using pandas' **get_dummies** method to transform categorical variables into a format suitable for machine learning models.