Data Science Career Track Capstone: Data Wrangling and EDA Rubric

Data Wrangling

Learning Objective

- Clean the dataset and address issues like missing values and duplicate values.
- Apply data wrangling techniques, as laid out in the DSM of; Data Collection, Data Organization, Data Definition, Data Cleaning.

Criteria	Meets Expectations
Completion	All data wrangling steps required for their dataset are applied.
	Data and code are uploaded to Github as a Jupyter notebook or
	Python script files.
Process and	☐ The submission shows that the student understands how to
understanding	acquire, organize, define and clean data.
	The submission includes data sets that were well-chosen
	and relevant to the problem
	The submission demonstrates that the student made
	data-supported decisions on how to handle missing values,
	duplicates and outliers as needed
Presentation	☐ Jupyter Notebook with all the applied code steps in working
	order and with notation or comments as needed.
	The submission is complete and uploaded in full to the Github
	repo.

Exploratory Data Analysis

Learning Objectives

- Understand the importance of performing EDA on data science projects.
- Apply data wrangling techniques, as laid out in the DSM building data profiles, tables, and figures to evaluate the feature relationships.
- Identify the features that are likely to have the most impact in modeling based on relationships between the features and the response variable.

Criteria	Meets Expectations
Completion	Every feature is investigated using either histograms, bi-plots, or
	other visual and numeric means.
	Pearson correlation coefficients and other statistical methods
	were used to identify statistical relationship strengths.
Process and	☐ The submission shows that the student understands how to
understanding	explore feature relationships in the data.
	The submission demonstrates that the student made
	data-supported decisions on when to select specific features.
Presentation	Jupyter Notebook with all the applied code steps in working
	order and with notation or comments as needed.
	The submission is complete and uploaded in full to the Github
	repo.