Netflix Data Science Foundations Boot Camp – Pymaceutical ANOVA and Tukey Rubric

This assignment will be evaluated against the requirements in the following rubric and assigned a grade as shown in the Assignment Grading table. The maximum number of points for each requirement is shown in the Points column.

Requirements	Points
The Pymaceutical_data.csv dataset is read into a DataFrame.	5
Determine which drug treatments significantly reduce tumor volume.	
A box plot is created that compares the drug regimens and tumor volume.	5
Individual data Series are created for each drug treatment that has the tumor volume for each mouse.	10
ANOVA is performed that compares the means of the tumor volume for each drug regimen.	5
A pairwise Tukey HSD test is performed that compares the means of the tumor volume for each drug regimen.	7.5
There is a summary of the statistical analysis.	10
Determine which drug treatments at 45 days are more effective at reducing the number of metastatic sites.	
A new DataFrame is created that contains data from the last time point.	10
A box plot is created that compares the drug regimens and metastatic sites.	5
Individual data Series are created for each drug treatment that has the metastatic sites for each mouse.	10
ANOVA is performed that compares the means of the metastatic sites for each drug regimen.	5
A pairwise Tukey HSD test is performed that compares the means of the metastatic sites for each drug regimen.	7.5

Assignment Grading

Grade	Points
High Pass	90+
Pass	70-89
Fail	1-69
Incomplete	0

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There is a summary of the statistical analysis.	10
There is a final summary based on the two statistical analyses.	10
Total	**100**