

Technical Analysis Rubric for PyBer Challenge: Maximum of 70 points.

	Mastery (70 points)	Approaching Mastery (55 points)	Progressing (35 points)	Emerging (20 points)	Incomplete
Summary DataFrame (20 points)	The notebook generates a summary DataFrame that contains: ✓ The Total Rides (4 pts) ✓ The Total Drivers (4 pts) ✓ Total Fares (4 pts) ✓ Average Fare per Ride 4 pts) ✓ Average Fare per Driver (4 pts)	The notebook generates a summary DataFrame that contains at least four of the following: ✓ The Total Rides (4 pts) ✓ The Total Drivers (4 pts) ✓ Total Fares (4 pts) ✓ Average Fare per Ride 4 pts) ✓ Average Fare per Driver (4 pts)	The notebook generates a summary DataFrame that contains at least two of the following: ✓ The Total Rides (4 pts) ✓ The Total Drivers (4 pts) ✓ Total Fares (4 pts) ✓ Average Fare per Ride 4 pts) ✓ Average Fare per Driver (4 pts)	✓ The notebook does not generate a summary DataFrame, but it does create a DataFrame with the correct column names (5 pts)	No submission was received -OR- Submission was empty or blank -OR- Submission contains evidence of academic dishonesty
Summary DataFrame: Formatting (10 points)	The notebook generates a summary DataFrame, where all of the following are completed. ✓ All 15 values in the rows are correct according to the solution (4 pts) ✓ The index name is deleted after creating the summary DataFrame (3 pts) ✓ All of the columns that need formatting are formatted (3 pts)	The notebook generates a summary DataFrame, with the following: ✓ 10-12 of the values in the rows are correct according to the solution (3 pts) ✓ The index name is deleted after creating the summary DataFrame (3 pts) ✓ 3 of the 5 columns that need formatting are formatted (2 pts)	The notebook generates a summary DataFrame, with the following: ✓ 6-9 of the values in the rows are correct according to the solution (1.5 pts) ✓ The index name is deleted after creating the summary DataFrame (3 pts) ✓ 2 of the 5 columns that need formatting are formatted (1.5 pts)	The notebook generates a summary DataFrame, with the following: ✓ Less than 5 of the values in the rows are correct according to the solution (1 pts) ✓ The index name has not been deleted after creating the summary DataFrame (1 pts) ✓ 1 of the 5 columns that needs formatting is formatted (1 pts)	
Multiple-Line Chart: Graph (20 points)	Line chart matches the line chart provided in the homework solution ✓ There is one graph like the solution containing all three city types over the time period specified (10 pts) ✓ The data graphed from the DataFrame created	A line chart that does not match the line chart provided in homework solution, but contains: ✓ There is a graph similar to the solution, like "seaborn", containing all three city types over the time period. (7.5 pts)	A line chart that does not match the line chart provided in homework solution, but contains: ✓ There is a graph similar to the solution containing all three city types over the time period specified, but is not the "fivethirtyeight" style. (5 pts)	A line chart that does not match the line chart provided in homework, but contains: ✓ One or more line graphs of the data and time span specified (5 pts)	

	using <code>.resample('W').sum()</code> (10 pts)	✓ The data graphed from the DataFrame created does not use <code>.resample('W').sum()</code> , but uses another time period, like 'D' or 'M' (7.5 pts)	✓ The data graphed from a DataFrame created with <code>resample()</code> only (the <code>sum()</code> method is not used), and uses another time period, like 'D' or 'M', or no time period (5 pts)		
Multiple-Line Chart: Formatting (20 points)	<p>The line chart has all of the following:</p> <ul style="list-style-type: none"> ✓ The axes labels and chart title are properly annotated (10 pts) ✓ The "fivethirtyeight" graph style is used (10 pts) 	<p>The line chart has the following:</p> <ul style="list-style-type: none"> ✓ One or both axes and / or the chart title is properly annotated (8 pts) ✓ A similar graph style to "fivethirtyeight", like "seaborn", is used (8 pts) 	<p>The line chart has the following:</p> <ul style="list-style-type: none"> ✓ The one axis or the chart title is properly annotated (5.5 pts) ✓ There is a graph but it is not the "fivethirtyeight" style (5.5 pts) 	<p>The line chart has the following:</p> <ul style="list-style-type: none"> ✓ There is a graph (5 pts) ✓ The axes labels and the chart title are not annotated 	

Writing Report Rubric for PyBer Challenge: Maximum of 30 points

	Mastery (30 points)	Approaching Mastery (22.5 points)	Progressing (15 points)	Emerging (7 points)	Incomplete
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<p>Structure, organization, and format</p> <p>(6 points)</p>	<p>The written report is well developed, organized, comprehensive, and has the following:</p> <ul style="list-style-type: none"> ✓ Each paragraph has 4-5 sentences (2 pts) <p>And, has all of the following:</p> <ul style="list-style-type: none"> ✓ Each paragraph has a heading (1 pt) ✓ There are subheadings to break up thoughts and text (1 pt) ✓ Links are working (1 pt) ✓ Images are formatted and displayed where appropriate (1 pt) 	<p>The written report flows well, needs some organization, is not quite comprehensive, and has the following:</p> <ul style="list-style-type: none"> ✓ Each paragraph has 3-4 sentences (1.5 pts) <p>And, has three of the following:</p> <ul style="list-style-type: none"> ✓ Each paragraph has a heading (1 pt) ✓ There are subheadings to break up thoughts and text (1 pt) ✓ Links are working (1 pt) ✓ Images are formatted and displayed where appropriate (1 pt) 	<p>The written report needs more development, organization, is not comprehensive, and has the following:</p> <ul style="list-style-type: none"> ✓ Each paragraph has 2-3 sentences (1 pts) <p>And, has the two of the following:</p> <ul style="list-style-type: none"> ✓ Each paragraph has a heading (1 pt) ✓ There are subheadings to break up thoughts and text (1 pt) ✓ Links are working (1 pt) ✓ Images are formatted and displayed where appropriate (1 pt) 	<p>The written report is poorly developed and organized, and has the following:</p> <ul style="list-style-type: none"> ✓ Paragraphs have 2 sentences each (0.5 pts) <p>And, has the one of the following:</p> <ul style="list-style-type: none"> ✓ Each paragraph has a heading (1 pt) ✓ There are subheadings to break up thoughts and text (1 pt) ✓ Links are working (1 pt) ✓ Images are formatted and displayed where appropriate. (1 pt) 	<p>No submission was received</p> <p>-OR-</p> <p>Submission was empty or blank</p> <p>-OR-</p> <p>Submission contains evidence of academic dishonesty</p>
<p>1st Paragraph: Background and Results</p> <p>(8 points)</p>	<p>The first paragraph has all of the following:</p> <ul style="list-style-type: none"> ✓ The purpose is well defined (2 pts) ✓ The technical analysis performed is well described with screenshots or functional links to code (2 pts) ✓ The results of the challenge are thoroughly explained with images and a summary (4 pts) 	<p>The first paragraph has all of the following:</p> <ul style="list-style-type: none"> ✓ The purpose is defined but need some clarity (1.5 pts) ✓ The technical analysis performed is not completely described and is missing some key points, but there are screenshots or links to code (1.5 pts) ✓ The results of the challenge are not thoroughly explained, but there are images, and the summary is lacking some clarity (3 pts) 	<p>The first paragraph has all of the following:</p> <ul style="list-style-type: none"> ✓ The purpose is marginally clear (1 pt) ✓ The technical analysis performed is short and is missing many key points, and there are no screenshots or links to code (1 pt) ✓ The results of the challenge are marginally explained, but there are images, and the summary is lacking some clarity (2 pts) 	<p>The first paragraph has all of the following:</p> <ul style="list-style-type: none"> ✓ The purpose is not clear (0.5 pt) ✓ The technical analysis performed is poorly explained, but there are screenshots or links to the code, or it is marginally explained with no screenshots or links to code (0.5 pt) ✓ The results of the challenge are poorly explained, but there are images and the summary is lacking clarity (0.5 pts) 	
<p>2nd Paragraph: Challenges</p>	<p>The second paragraph has all of the following:</p>	<p>The second paragraph has all of the following:</p>	<p>The second paragraph has all of the following:</p>	<p>The second paragraph has all of the following:</p>	

<p>Encountered and Overcome</p> <p>(8 points)</p>	<p>✓ The challenges or difficulties encountered, if any, are well described. (2 pts)</p> <p>✓ The process in which the challenges or difficulties were overcome are well defined (2 pts)</p> <p>✓ The technical analysis used to overcome the challenges or difficulties are thoroughly explained with images (4 pts)</p> <p>Note: if there were no challenges or difficulties, then briefly explain what challenges or difficulties may be encountered and how to avoid them using technical analysis (8 pts)</p>	<p>✓ The challenges or difficulties encountered, if any, are not well described (1.5 pts)</p> <p>✓ The process in which the challenges or difficulties were overcome are not well defined or explained (1.5 pts)</p> <p>✓ The technical analysis used to overcome the challenges or difficulties are marginally explained with images (3 pts)</p>	<p>✓ The challenges or difficulties encountered, if any, are marginally described (1 pts)</p> <p>✓ The process in which the challenges or difficulties were overcome are marginally defined or explained (1 pts)</p> <p>✓ The technical analysis used to overcome the challenges or difficulties are marginally explained with no images (2 pts)</p>	<p>✓ The challenges or difficulties encountered, if any, are poorly described (0.5 pts)</p> <p>✓ The process in which the challenges or difficulties were overcome are poorly defined or explained (0.5 pts)</p> <p>✓ The technical analysis used to overcome the challenges or difficulties are poorly explained with no images (1 pts)</p>	
<p>3rd Paragraph: Recommendations and Next Steps</p> <p>(8 points)</p>	<p>The third paragraph has all of the following:</p> <p>✓ Recommends 2 additional analysis steps to be performed (4 pts)</p> <p>✓ Thoroughly explains how they would perform the additional analyses (4 pts)</p>	<p>The third paragraph has all of the following:</p> <p>✓ Recommends 2 additional analysis steps to be performed (3 pts)</p> <p>✓ How they would perform the additional analyses is not well explained (3 pts)</p>	<p>The third paragraph has all of the following:</p> <p>✓ Recommends 1 additional analysis step to be performed (2 pts)</p> <p>✓ How they would perform the additional analyses is marginally explained. (2 pts)</p>	<p>The third paragraph has all of the following:</p> <p>✓ Recommends 1 additional analysis step to be performed, but provides no explanation. (2 pts)</p>	