



Data Boot Camp Grading Rubric

Project #3: Visualizing Data

Instructions:

Evaluate the student's submitted Project 3 assignment and presentation against the outlined criteria in the rubric below and assign a rating to each criterion. Add points earned across all criteria and convert the total points to a letter grade using the *Recommended Final Project Scoring Breakdown*.

Note:

We encourage students to collaborate and share ideas during the project weeks. Therefore, you may notice shared code, documentation, and/or write-up explanations across student submissions. This is acceptable and should be a consideration when assigning a rating to the student's performance.

Recommended Final Project Scoring Breakdown

Total Rubric Points Achieved	Project Grade
90 or more	A
80–89	B
70–79	C
60–69	D
59 or less	F

Rubric for Project 3:

	Proficiency 20 points	Approaching Proficiency 17 points	Developing Proficiency 14 points	Emerging 12 points	Incomplete
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Data and Data Delivery	<p>✓ Documentation of data components used in the project are clearly documented at a professional level</p> <p>- AND -</p> <p>Individual data and delivery components meet the following criteria:</p> <p>✓ The dataset contains at least 100 unique records</p> <p>✓ A database is used to house the data (SQL, MongoDB, SQLite, etc.)</p> <p>✓ The project is powered by a Python Flask API and includes professional-level use of HTML/CSS, JavaScript, and the chosen database</p>	<p>✓ Documentation of data components used in the project is mostly clear</p> <p>- AND -</p> <p>Individual data and delivery components meet the following criteria:</p> <p>✓ The dataset contains at least 70 unique records</p> <p>✓ A database is used to house the data</p> <p>✓ The project is powered by a Python Flask API and includes HTML/CSS, JavaScript, and the chosen database</p>	<p>✓ Documentation of data components used in the project is minimal and needs more information</p> <p>- AND -</p> <p>Individual data and delivery components meet the following criteria:</p> <p>✓ The dataset contains at least 50 unique records</p> <p>✓ A database is used to house the data</p> <p>✓ The project is powered by a Python Flask API and includes basic use of HTML/CSS, JavaScript, and the chosen database</p>	<p>✓ No documentation of data components used in the project exists but needs significantly more information</p> <p>- OR -</p> <p>Individual data and delivery components meet the following criteria:</p> <p>✓ The dataset contains fewer than 50 unique records</p> <p>✓ A database was not chosen to house the data</p> <p>✓ The project is powered by a Python Flask API but includes minimal use of HTML/CSS, JavaScript</p>	<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>
Back End	<p>✓ JavaScript library previously unintroduced during class is included and functioning correctly</p> <p>✓ The page created to showcase data visualizations runs without error</p> <p>Additionally, project is created using one of the following methods (this is also documented):</p> <p>✓ Web scraping and Leaflet or Plotly</p>	<p>✓ JavaScript library previously unintroduced during class is included and functioning with minimal error</p> <p>✓ The page created to showcase data visualizations runs with minor errors</p> <p>Additionally, project is created using one of the following methods (this is also documented):</p> <p>✓ Web scraping and Leaflet or Plotly</p> <p>- OR -</p>	<p>✓ JavaScript library previously unintroduced in class is included but functions with several errors</p> <p>✓ The page created to showcase data visualizations runs with significant errors</p> <p>Additionally, project is created using one of the following methods (this is also documented):</p> <p>✓ Web scraping and Leaflet or Plotly</p> <p>- OR -</p> <p>✓ A dashboard page updated using</p>	<p>✓ JavaScript library previously unintroduced in class is included but does not function correctly</p> <p>✓ The page created to showcase data visualizations is inoperable</p> <p>Additionally, project fails to use one of the following methods:</p> <p>✓ Web scraping and Leaflet or Plotly</p> <p>- OR -</p> <p>✓ A dashboard page updated using the same data</p>	



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	<p>- OR -</p> <p>✓ A dashboard page updated using the same data</p> <p>- OR -</p> <p>✓ An approved “thick” server, performing multiple data manipulations to a database prior to visualization</p>	<p>✓ A dashboard page updated using the same data</p> <p>- OR -</p> <p>✓ An approved “thick” server, performing multiple data manipulations to a database prior to visualization</p>	<p>the same data</p> <p>- OR -</p> <p>✓ An approved “thick” server, performing multiple data manipulations to a database prior to visualization</p>	<p>- OR -</p> <p>✓ An approved “thick” server, performing multiple data manipulations to a database prior to visualization</p>	
Visualizations	<p>✓ A minimum of three unique views present the data</p> <p>✓ Multiple user-driven interactions are included on the final page (such as dropdowns, filters, or a zoom feature)</p> <p>✓ The final page displays visualizations in a clear, professional-level manner</p> <p>✓ The data story is easy to interpret for users of all levels</p>	<p>✓ At least two unique views present the data</p> <p>✓ One or two user-driven interactions are included on the final page (such as dropdowns, filters, or a zoom feature)</p> <p>✓ The final page displays visualizations in a clear manner</p> <p>✓ The data story is easily interpreted by a certain type of audience (for example, a story that is only easily interpreted by a fellow analyst)</p>	<p>✓ At least one unique view presents the data</p> <p>✓ One user-driven interaction is included on the final page (such as dropdowns, filters, or a zoom feature)</p> <p>✓ The final page displays visualizations in a mostly clear manner</p> <p>✓ The data story is easily interpreted by a certain type of audience (for example, a story that is only easily interpreted by a fellow analyst)</p>	<p>✓ At least one unique view presents the data</p> <p>✓ No user-driven interactions are included on the final page</p> <p>✓ The final page does not display visualizations in a clear manner</p> <p>✓ The data story being told is difficult to interpret</p>	
Group Presentation	<p>✓ All group members spoke during the presentation</p> <p>✓ Group was well prepared</p> <p>✓ Presentation was relevant to material</p> <p>✓ Presentation maintains audience interest</p>	<p>✓ All group members spoke but didn’t split time equally</p> <p>✓ Group was mostly prepared, with minor hiccups</p> <p>✓ Presentation was almost entirely relevant</p>	<p>✓ Some group members barely spoke, others spoke for much longer</p> <p>✓ Group was fairly well prepared but encountered some major hiccups</p> <p>✓ Presentation was mostly relevant</p>	<p>✓ Not all group members spoke during the presentation.</p> <p>✓ Group seemed unprepared, the presentation is scattered or confusing</p> <p>✓ Presentation was not relevant to material</p>	



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Slide Deck	<ul style="list-style-type: none">✓ Slides are visually clean and professional✓ Slides are relevant to material✓ Slides effectively demonstrate the project✓ Slides are clear and maintain audience interest	<ul style="list-style-type: none">✓ Slides are visually clean and professional but contain minor areas for improvement✓ Slides are almost entirely relevant to material✓ Slides are mostly effective at demonstrating the project	<ul style="list-style-type: none">✓ Slides are visually clean and professional but contain areas for improvement✓ Slides are somewhat relevant to material✓ Slides are somewhat effective at demonstrating the project	<ul style="list-style-type: none">✓ Slides are not visually clean and professional and contain substantial areas for improvement✓ Slides are not relevant to material✓ Slides do not effectively demonstrate the project	
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