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

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

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| **Slide Deck** | √ Slides are visually clean and professional<br><br>√ Slides are relevant to material<br><br>√ Slides effectively demonstrate the project<br><br>√ Slides are clear and maintain audience interest | √ Slides are visually clean and professional but contain minor areas for improvement<br><br>√ Slides are almost entirely relevant to material<br><br>√ Slides are mostly effective at demonstrating the project | √ Slides are visually clean and professional but contain areas for improvement<br><br>√ Slides are somewhat relevant to material<br><br>√ Slides are somewhat effective at demonstrating the project | √ Slides are not visually clean and professional and contain substantial areas for improvement<br><br>√ Slides are not relevant to material<br><br>√ Slides do not effectively demonstrate the project | |