	Segment 1 19% of final grade		Segment 2 19% of final grade		Segment 3 19% of final grade		Segment 4 40% of final grade			Individual Self-Assessment 3% of final grade	
	Description of Mastery	Points	Description of Mastery	Points	Description of Mastery	Points	Description of Mastery	Points		Description of Mastery	Points
Presentation	**Content** Team members have drafted their project, including the following: ✓ Selected topic ✓ Reason why they selected their topic ✓ Description of their source of data ✓ Questions they hope to answer with the data Note: The content does not yet need to be in the form of a presentation; text in the README.md works as well.	30	**Content** The presentation outlines the project, including the following: ✓ Selected topic ✓ Reason why they selected their topic ✓ Description of their source of data ✓ Questions they hope to answer with the data ✓ Description of the data exploration phase of the project ✓ Description of the analysis phase of the project **Slides** Presentations are drafted in Google Slides.	15	**Content** The presentation tells a story about their project, including the following: ✓ Selected topic ✓ Reason why they selected their topic ✓ Description of their source of data ✓ Questions they hope to answer with the data ✓ Description of the data exploration phase of the project ✓ Description of the analysis phase of the project ✓ Technologies, languages, tools, and algorithms used throughout the project **Slides** Presentations are drafted in Google Slides.	15	**Content** The presentation tells a cohesive story about their project, including the following: ✓ Selected topic ✓ Reason why they selected their topic ✓ Description of their source of data ✓ Questions they hope to answer with the data ✓ Description of the data exploration phase of the project ✓ Description of the analysis phase of the project ✓ Technologies, languages, tools, and algorithms used throughout the project ✓ Result of analysis ✓ Recommendation for future analysis ✓ Anything the team would have done differently **Slides** Presentations are finalized in Google Slides. ✓ Slides are primarily images or graphics (rather than primarily text) ✓ Images are clear, in high-definition, and directly illustrative of subject matter **Live Presentation** ✓ All team members present in equal proportions ✓ The team demonstrates interactivity of dashboard in real time ✓ The presentation falls within any time limits provided by instructor ✓ Submission includes speaker notes, flashcards, or a video of the presentation rehearsal	25	**Self-Assessment**	Presents a cohesive written analysis that describes the role(s) they played over the course of the project and their contribution to the project in that role. Presents a cohesive written summary of how they contributed to each of the roles they did not take on via team discussions, peer reviews, or other means. Additionally, the analysis should describe their greatest personal challenge over the course of the project, and how they overcame that challenge.	4
GitHub	**Master Branch** ✓ Includes a README.md **README.md** README.md must include: ✓ Description of the communication protocols **Individual Branches** ✓ At least one branch for each team member ✓ Each team member has at least four commits from the duration of the first segment Note: The descriptions and explanations required in all other project deliverables should also be in your README.md as part of your outline, unless otherwise noted.	10	**Master Branch** All code in the master branch is production-ready. The master branch should include: ✓ All code necessary to perform exploratory analysis ✓ Some code necessary to complete the machine learning portion of the project **README.md** README.md must include: ✓ Description of the communication protocols ✓ Outline of the project (this may include images, but should be easy to follow and digest) Note: The descriptions and explanations required in all other project deliverables should also be in your README.md as part of your outline, unless otherwise noted. **Individual Branches** ✓ At least one branch for each team member ✓ Each team member has at least four commits for the duration of the second segment (eight total commits per person)	10	**Master Branch** All code in the master branch is production-ready. Master branch should include: ✓ All code necessary to perform exploratory analysis ✓ Most code necessary to complete the machine learning portion of the project **README.md** README.md must include: ✓ Description of the communication protocols has been removed ✓ Cohesive, structured outline of the project (this may include images, but should be easy to follow and digest) ✓ Link to Google Slides draft presentation Note: The descriptions and explanations required in all other project deliverables should also be in your README.md as part of your outline, unless otherwise noted. **Individual Branches** ✓ At least one branch for each team member ✓ Each team member has at least four commits for the duration of the third segment (12 total commits per person)	10	**Master Branch** All code in the master branch is production-ready. All code is clean, commented, easy to read, and adheres to a coding standard (e.g., PEP8) Master branch should include: ✓ All code necessary to perform exploratory analysis ✓ All code necessary to complete machine learning portion of project ✓ Any images that have been created (at least three) ✓ Requirements.txt file **README.md** README.md must include: ✓ Cohesive, structured outline of the project (this may include images, but should be easy to follow and digest) ✓ Link to dashboard (or link to video of dashboard demo) ✓ Link to Google Slides presentation Note: The descriptions and explanations required in all other project deliverables should also be in your README.md as part of your outline, unless otherwise noted. **Individual Branches** ✓ At least one branch for each team member ✓ Each team member has at least four commits for the duration of the final segment (16 total commits per person)	10	**Team Assessment**	Presents a cohesive written analysis that describes their teamwork, including all of the following: ✓ Their communication protocol, including any challenges, how they were resolved, and what they would do differently next time ✓ Their strengths as a team, including tips and tricks they would want to share with a new cohort kicking off the project	3
Machine Learning Model	Team members present a provisional machine learning model that stands in for the final machine learning model and accomplishes the following: ✓ Takes in data in from the provisional database ✓ Outputs label(s) for input data	35	Team members submit the code for their machine learning model, as well as the following: ✓ Description of preliminary data preprocessing ✓ Description of preliminary feature engineering and preliminary feature selection, including their decision-making process ✓ Description of how data was split into training and testing sets ✓ Explanation of model choice, including limitations and benefits	30	Team members submit the working code for their machine learning model, as well as the following: ✓ Description of data preprocessing ✓ Description of feature engineering and the feature selection, including their decision-making process ✓ Description of how data was split into training and testing sets ✓ Explanation of model choice, including limitations and benefits ✓ Explanation of changes in model choice (if changes occurred between the Segment 2 and Segment 3 deliverables) ✓ Description of how they have trained the model thus far, and any additional training that will take place ✓ Description of current accuracy score Additionally, the model obviously addresses the question or problem the team is solving.	45	Team members submit the working code for their machine learning model, as well as the following: ✓ Description of data preprocessing ✓ Description of feature engineering and the feature selection, including the team's decision-making process ✓ Description of how data was split into training and testing sets ✓ Explanation of model choice, including limitations and benefits ✓ Explanation of changes in model choice (if changes occurred between the Segment 2 and Segment 3 deliverables) ✓ Description of how model was trained (or retrained, if they are using an existing model) ✓ Description and explanation of model's confusion matrix, including final accuracy score Additionally, the model obviously addresses the question or problem the team is solving. Note: If statistical analysis is not included as part of the current analysis, include a description of how it would be included in the next phases of the project.	25	**Summary of Project**	Presents a cohesive, three- to four-sentence summary of the project that could be used on a LinkedIn profile, in an interview or cover letter, or as an elevator pitch, including all of the following: ✓ Topic addressed ✓ Machine module used ✓ Results of the analysis	3
Database	Team members present a provisional database that stands in for the final database and accomplishes the following: ✓ Sample data that mimics the expected final database structure or schema ✓ Draft machine learning module is connected to the provisional database	25	Team members present a fully integrated database. ✓ Database stores static data for use during the project ✓ Database interfaces with the project in some format (e.g., scraping updates the database, or database connects to the model) ✓ Includes at least two tables (or collections, if using MongoDB) ✓ Includes at least one join using the database language (not including any joins in Pandas) ✓ Includes at least one connection string (using SQLAlchemy or PyMongo) Note: If you use a SQL database, you must provide your ERD with relationships.	30	n/a		Team members present a final project with a fully integrated database. ✓ Database stores static data for use during the project ✓ Database interfaces with the project in some format (e.g., scraping updates the database, or database connects to the model) ✓ Includes at least two tables (or collections, if using MongoDB) ✓ Includes at least one join using the database language (not including any joins in Pandas) ✓ Includes at least one connection string (using SQLAlchemy or PyMongo) Note: If you use a SQL database, you must provide your ERD with relationships.	25			
Dashboard	n/a	0	A blueprint for the dashboard is created and includes all of the following: ✓ Storyboard on Google Slide(s) ✓ Description of the tool(s) that will be used to create final dashboard ✓ Description of interactive element(s)	15	The dashboard presents a data story that is logical and easy to follow for someone unfamiliar with the topic. It includes all of the following: ✓ Images from the initial analysis ✓ Data (images or report) from the machine learning task ✓ At least one interactive element	30	The dashboard presents a data story that is logical and easy to follow for someone unfamiliar with the topic. It includes all of the following: ✓ Images from the initial analysis ✓ Data (images or report) from the machine learning task ✓ At least one interactive element Either the dashboard is published or the submission includes a screen capture video of it in action.	15			
TOTAL		100		100		100		100			10

	Segment 1 19% of final grade								
	Mastery		**Approaching Mastery**		**Emerging**		**Progressing**		**Incomplete**
Presentation	Content Team members have drafted their project, including the following: ✓ Selected topic ✓ Reason why they selected their topic ✓ Description of their source of data ✓ Questions they hope to answer with the data Note: The content does not yet need to be in the form of a presentation; text in the README.md works as well.	30	**Content** Team members have drafted their project, including three of the following: ✓ Selected topic ✓ Reason why they selected their topic ✓ Description of their source of data ✓ Questions they hope to answer with the data Note: The content does not yet need to be in the form of a presentation; text in the README.md works as well.	23	**Content** Team members have drafted their project, including two of the following: ✓ Selected topic ✓ Reason why they selected their topic ✓ Description of their source of data ✓ Questions they hope to answer with the data Note: The content does not yet need to be in the form of a presentation; text in the README.md works as well.	16	**Content** Team members have drafted their project, including one of the following: ✓ Selected topic ✓ Reason why they selected their topic ✓ Description of their source of data ✓ Questions they hope to answer with the data Note: The content does not yet need to be in the form of a presentation; text in the README.md works as well.	9	**No submission was received** **-OR-** **Submission was empty or blank** **-OR-** **Submission contains evidence of academic dishonesty**
GitHub	Master Branch ✓ Includes a README.md README.md README.md must include: ✓ Description of the communication protocols Individual Branches ✓ At least one branch for each team member ✓ Each team member has at least four commits from the duration of the first segment Note: The descriptions and explanations required in all other project deliverables should also be in your README.md as part of your outline, unless otherwise noted.	10	**Master Branch** ✓ Includes a README.md **README.md** README.md must include: ✓Description of the communication protocols **Individual Branches** ✓ At least one branch for each team member ✓ Each team member has at least two commits for the duration of the first segment	7	**Master Branch** ✓ Includes a README.md **Individual Branches** ✓ At least one branch for each team member ✓ Each team member has at least one commit for the duration of the first segment	4	**Master Branch** ✓ Includes a README.md	1	
Machine Learning Model	Team members present a provisional machine learning model that stands in for the final machine learning model and accomplishes the following: ✓ Takes in data in from the provisional database ✓ Outputs label(s) for input data	35	Team members present a provisional machine learning model that stands in for the final machine learning model and accomplishes the following, with some minor errors: ✓ Takes in data in from the provisional database ✓ Outputs label (s) for input data	27	Team members present a provisional machine learning model that stands in for the final machine learning model and accomplishes one of the below items. ✓ Takes in data in from the provisional database ✓ Outputs label(s) for input data"	19	Team members present a provisional machine learning model that stands in for the final machine learning model that attempts to accomplish the following: ✓ Takes in data in from the provisional database ✓ Outputs label(s) for input data	11	
Database	Team members present a provisional database that stands in for the final database and accomplishes the following: ✓ Sample data that mimics the expected final database structure or schema ✓ Draft machine learning module is connected to the provisional database	25	Team members present a provisional database that stands in for the final database and accomplishes the following, with some minor errors: ✓ Sample data that mimics the expected final database structure or schema ✓ Draft machine learning module is connected to the provisional database	19	Team members present a provisional database that stands in for the final database and accomplishes one of the following: ✓ Sample data that mimics the expected final database structure or schema ✓ Draft machine learning module is connected to the provisional database	13	Team members present a provisional database that stands in for the final database and attempts to accomplish the following: ✓ Sample data that mimics the expected final database structure or schema ✓ Draft machine learning module is connected to the provisional database	7	
Dashboard	n/a	0		0		0		0	
TOTAL		100		76		52		28	

	Segment 2 19% of final grade								
	Mastery		**Approaching Mastery**		**Emerging**		**Progressing**		**Incomplete**
Presentation	Content The presentation outlines the project, including the following: ✓ Selected topic ✓ Reason why they selected their topic ✓ Description of their source of data ✓ Questions they hope to answer with the data ✓ Description of the data exploration phase of the project ✓ Description of the analysis phase of the project Slides Presentations are drafted in Google Slides.	15	**Content** The presentation outlines the project, including four or five of the following: ✓ Selected topic ✓ Reason why they selected their topic ✓ Description of their source of data ✓ Questions they hope to answer with the data ✓ Description of the data exploration phase of the project ✓ Description of the analysis phase of the project **Slides** Presentations are drafted in Google Slides.	12	**Content** The presentation outlines the project, including two or three of the following: ✓ Selected topic ✓ Reason why they selected their topic ✓ Description of their source of data ✓ Questions they hope to answer with the data ✓ Description of the data exploration phase of the project ✓ Description of the analysis phase of the project	9	**Content** The presentation outlines the project, including one of the following: ✓ Selected topic ✓ Reason why they selected their topic ✓ Description of their source of data ✓ Questions they hope to answer with the data ✓ Description of the data exploration phase of the project ✓ Description of the analysis phase of the project	6	
GitHub	Master Branch All code in the master branch is production-ready. The master branch should include: ✓ All code necessary to perform exploratory analysis ✓ Some code necessary to complete the machine learning portion of the project README.md README.md must include: ✓ Description of the communication protocols ✓ Outline of the project (this may include images, but should be easy to follow and digest) Note: The descriptions and explanations required in all other project deliverables should also be in your README.md as part of your outline, unless otherwise noted. Individual Branches ✓ At least one branch for each team member ✓ Each team member has at least four commits for the duration of the second segment (eight total commits per person)	10	**Master Branch** Most code in the master branch is production-ready. Master branch should include: ✓ All code necessary to perform exploratory analysis ✓ Some code necessary to complete machine learning portion of project **README.md** README.md must include: ✓ Description of the communication protocols ✓ Basic outline of the project Note: The descriptions and explanations required in all other project deliverables should also be in your README.md as part of your outline, unless otherwise noted. **Individual Branches** ✓ At least one branch for each team member ✓ Each team member has at least two commits for the duration of the second segment	7	**Master Branch** Some code in the master branch is production-ready. Master branch should include: ✓ Most code necessary to perform exploratory analysis ✓ Some code necessary to complete machine learning portion of project **README.md** README.md must include: ✓ Description of the communication protocols ✓ Basic outline of the project Note: The descriptions and explanations required in all other project deliverables should also be in your README.md as part of your outline, unless otherwise noted. **Individual Branches** ✓ At least one branch for each team member ✓ Each team member has at least one commit for the duration of the second segment	4	**Master Branch** No code in the master branch is production-ready. Master branch should include: ✓ Some code necessary to perform exploratory analysis **README.md** README.md must include: ✓ Description of the communication protocols Note: The descriptions and explanations required in all other project deliverables should also be in your README.md as part of your outline, unless otherwise noted. **Individual Branches** ✓ At least one branch for each team member	1	**No submission was received** **-OR-** **Submission was empty or blank** **-OR-** **Submission contains evidence of academic dishonesty**
Machine Learning Model	Team members submit the code for their machine learning model, as well as the following: ✓ Description of preliminary data preprocessing ✓ Description of preliminary feature engineering and preliminary feature selection, including their decision-making process ✓ Description of how data was split into training and testing sets ✓ Explanation of model choice, including limitations and benefits	30	Students submit the code for their machine learning model, as well as three of the following: ✓ Description of preliminary data preprocessing ✓ Description of preliminary feature engineering and preliminary feature selection, including their decision-making process ✓ Description of how data was split into training and testing sets ✓ Explanation of model choice, including limitations and benefits	23	Students submit the code for their machine learning model, as well as two of the following: ✓ Description of preliminary data preprocessing ✓ Description of preliminary feature engineering and preliminary feature selection, including their decision-making process ✓ Description of how data was split into training and testing sets ✓ Explanation of model choice, including limitations and benefits	16	Students submit the code for their machine learning model, as well as one of the following: ✓ Description of preliminary data preprocessing ✓ Description of preliminary feature engineering and preliminary feature selection, including their decision-making process ✓ Description of how data was split into training and testing sets ✓ Explanation of model choice, including limitations and benefits	9	

Database	Team members present a fully integrated database. ✓ Database stores static data for use during the project ✓ Database interfaces with the project in some format (e.g., scraping updates the database, or database connects to the model) ✓ Includes at least two tables (or collections, if using MongoDB) ✓ Includes at least one join using the database language (not including any joins in Pandas) ✓ Includes at least one connection string (using SQLAlchemy or PyMongo) Note: If you use a SQL database, you must provide your ERD with relationships.	30	Team members present database that accomplishes four of the following: ✓ Database stores static data for use during the project ✓ Database interfaces with the project in some format (e.g., scraping updates the database) ✓ Includes at least two tables (or collections, if using MongoDB) ✓ Includes at least one join using the database language (not including any joins in Pandas) ✓ Includes at least one connection string (using SQLAlchemy or PyMongo) Note: If you use a SQL database, you must provide your ERD with relationships.	23	Team members present database that accomplishes three of the following: ✓ Database stores static data for use during the project ✓ Database interfaces with the project in some format (e.g., scraping updates the database) ✓ Includes at least two tables (or collections, if using MongoDB) ✓ Includes at least one join using the database language (not including any joins in Pandas) ✓ Includes at least one connection string (using SQLAlchemy or PyMongo) Note: If you use a SQL database, you must provide your ERD with relationships.	16	Team members present database that accomplishes two of the following: ✓ Database stores static data for use during the project ✓ Database interfaces with the project in some format (e.g., scraping updates the database) ✓ Includes at least two tables (or collections, if using MongoDB) ✓ Includes at least one join using the database language (not including any joins in Pandas) ✓ Includes at least one connection string (using SQLAlchemy or PyMongo) Note: If you use a SQL database, you must provide your ERD with relationships.	9	
Dashboard	A blueprint for the dashboard is created and includes all of the following: ✓ Storyboard on Google Slide(s) ✓ Description of the tool(s) that will be used to create final dashboard ✓ Description of interactive element(s)	15	A blueprint for the dashboard is created and includes two of the following: ✓ Storyboard on a Google Slide(s) ✓ Description of the tool(s) that will be used to create final dashboard ✓ Description of interactive element(s)	12	A blueprint for the dashboard is created and includes one of the following: ✓ Storyboard on a Google Slide(s) ✓ Description of the tool(s) that will be used to create final dashboard ✓ Description of interactive element(s)	9	A blueprint for the dashboard is created.	6	
TOTAL		100		77		54		31	

	Segment 3 19% of final grade								
	Mastery		**Approaching Mastery**		**Emerging**		**Progressing**		**Incomplete**
Presentation	Content The presentation tells a story about their project, including the following: ✓ Selected topic ✓ Reason why they selected their topic ✓ Description of their source of data ✓ Questions they hope to answer with the data ✓ Description of the data exploration phase of the project ✓ Description of the analysis phase of the project ✓ Technologies, languages, tools, and algorithms used throughout the project Slides Presentations are drafted in Google Slides.	15	**Content** The presentation tells a story about their project, including six of the following: ✓ Selected topic ✓ Reason why they selected their topic ✓ Description of their source of data ✓ Questions they hope to answer with the data ✓ Description of the data exploration phase of the project ✓ Description of the analysis phase of the project ✓ Technologies, languages, tools, and algorithms used throughout project **Slides** Presentations are drafted in Google Slides.	12	**Content** The presentation tells a story about their project, including four or five of the following: ✓ Selected topic ✓ Reason why they selected their topic ✓ Description of their source of data ✓ Questions they hope to answer with the data ✓ Description of the data exploration phase of the project ✓ Description of the analysis phase of the project ✓ Technologies, languages, tools, and algorithms used throughout project	9	**Content** The presentation tells a story about their project, including up to three of the following: ✓ Selected topic ✓ Reason why they selected their topic ✓ Description of their source of data ✓ Questions they hope to answer with the data ✓ Description of the data exploration phase of the project ✓ Description of the analysis phase of the project ✓ Technologies, languages, tools, and algorithms used throughout project	6	
GitHub	Master Branch All code in the master branch is production-ready. Master branch should include: ✓ All code necessary to perform exploratory analysis ✓ Most code necessary to complete the machine learning portion of the project README.md README.md must include: ✓ Description of the communication protocols has been removed ✓ Cohesive, structured outline of the project (this may include images, but should be easy to follow and digest) ✓ Link to Google Slides draft presentation Note: The descriptions and explanations required in all other project deliverables should also be in your README.md as part of your outline, unless otherwise noted. Individual Branches ✓ At least one branch for each team member ✓ Each team member has at least four commits for the duration of the third segment (12 total commits per person)	10	**Master Branch** Most code in the master branch is production-ready. Master branch should include: ✓ All code necessary to perform exploratory analysis ✓ Most code necessary to complete machine learning portion of project **README.md** README.md must include: ✓ Description of the communication protocols has been removed ✓ Structured outline of the project (this may include images, but should be easy to follow and digest) ✓ Link to Google Slides draft presentation Note: The descriptions and explanations required in all other project deliverables should also be in your README.md as part of your outline, unless otherwise noted. **Individual Branches** ✓ At least one branch for each team member ✓ Each team member has at least two commits for the duration of the third segment	7	**Master Branch** Some code in the master branch is production-ready. Master branch should include: ✓ All code necessary to perform exploratory analysis ✓ Some code necessary to complete machine learning portion of project **README.md** README.md must include: ✓ Description of the communication protocols has been removed or added to .gitignore ✓ Outline of the project (this may include images, but should be easy to follow and digest) ✓ Link to Google Slides draft presentation Note: The descriptions and explanations required in all other project deliverables should also be in your README.md as part of your outline, unless otherwise noted. **Individual Branches** ✓ At least one branch for each team member ✓ Each team member has at least one commit for the duration of the third segment	4	**Master Branch** No code in the master branch is production-ready. Master branch should include: ✓ Some code necessary to perform exploratory analysis ✓ Some code necessary to complete machine learning portion of project **README.md** README.md must include: ✓ Description of the communication protocols has been removed or added to .gitignore ✓ Outline of the project ✓ Link to Google Slides draft presentation Note: The descriptions and explanations required in all other project deliverables should also be in your README.md as part of your outline, unless otherwise noted. **Individual Branches** ✓ At least one branch for each team member	1	**No submission was received** **-OR-** **Submission was empty or blank** **-OR-** **Submission contains evidence of academic dishonesty**
Machine Learning Model	Team members submit the working code for their machine learning model, as well as the following: ✓ Description of data preprocessing ✓ Description of feature engineering and the feature selection, including their decision-making process ✓ Description of how data was split into training and testing sets ✓ Explanation of model choice, including limitations and benefits ✓ Explanation of changes in model choice (if changes occurred between the Segment 2 and Segment 3 deliverables) ✓ Description of how they have trained the model thus far, and any additional training that will take place ✓ Description of current accuracy score Additionally, the model obviously addresses the question or problem the team is solving.	45	Students submit the working code for their machine learning model, as well as five or six of the following. ✓ Description of data preprocessing ✓ Description of feature engineering and the feature selection, including their decision-making process ✓ Description of how data was split into training and testing sets ✓ Explanation of model choice, including limitations and benefits ✓ Explanation of changes in model choice (if changes occurred between the Segment 2 and Segment 3 deliverables) ✓ Description of how they have trained the model thus far, and any additional training that will take place ✓ Description of current accuracy score Additionally, the model obviously addresses the question or problem the team is solving.	34	Students submit the working code for their machine learning model, as well as 3 or 4 of the following. ✓ Description of data preprocessing ✓ Description of feature engineering and the feature selection, including their decision-making process ✓ Description of how data was split into training set and testing sets ✓ Explanation of model choice, including limitations and benefits ✓ Explanation of changes in model choice (if changes occurred between the Segment 2 and Segment 3 deliverables) ✓ Description of how they have trained the model thus far, and any additional training that will take place ✓ Description of current accuracy score Additionally, the model does not obviously address the question or problem the team is solving.	23	Students submit the code for their machine learning model, as well as 1 or 2 of the following. ✓ Description of data preprocessing ✓ Description of feature engineering and the feature selection, including their decision-making process ✓ Description of how data was split into training set and testing sets ✓ Explanation of model choice, including limitations and benefits ✓ Explanation of changes in model choice (if changes occurred between the Segment 2 and Segment 3 deliverables) ✓ Description of how they have trained the model thus far, and any additional training that will take place ✓ Description of current accuracy score Additionally, the model does not obviously address the question or problem the team is solving.	12	
Database	n/a	0							

Dashboard	The dashboard presents a data story that is logical and easy to follow for someone unfamiliar with the topic. It includes all of the following: ✓ Images from the initial analysis ✓ Data (images or report) from the machine learning task ✓ At least one interactive element	30	The dashboard presents a data story that is logical and easy to follow for someone unfamiliar with the topic. It includes one or two of the following: ✓ Images from the initial analysis ✓ Data (images or report) from the machine learning task ✓ At least one interactive element	23	The dashboard presents a data story. It includes one or two of the following: ✓ Images from the initial analysis ✓ Data (images or report) from the machine learning task ✓ At least one interactive element	16	The dashboard presents a limited data story with no images, data from the machine learning task, or interactive elements.	9	
TOTAL		100		76		52		28	

	Segment 4 40% of final grade							
	Mastery		**Approaching Mastery**		**Emerging**		**Progressing**		**Incomplete**
Presentation	Content The presentation tells a cohesive story about their project, including the following: ✓ Selected topic ✓ Reason why they selected their topic ✓ Description of their source of data ✓ Questions they hope to answer with the data ✓ Description of the data exploration phase of the project ✓ Description of the analysis phase of the project ✓ Technologies, languages, tools, and algorithms used throughout the project ✓ Result of analysis ✓ Recommendation for future analysis ✓ Anything the team would have done differently Slides Presentations are finalized in Google Slides. ✓ Slides are primarily images or graphics (rather than primarily text) ✓ Images are clear, in high-definition, and directly illustrative of subject matter Live Presentation ✓ All team members present in equal proportions ✓ The team demonstrates interactivity of dashboard in real time ✓ The presentation falls within any time limits provided by instructor ✓ Submission includes speaker notes, flashcards, or a video of the presentation rehearsal	25	**Content** The presentation tells a developing story about their project, including at least nine of the following: ✓ Selected topic ✓ Reason why they selected their topic ✓ Description of their source of data ✓ Questions they hope to answer with the data ✓ Description of the data exploration phase of the project ✓ Description of the analysis phase of the project ✓ Technologies, languages, tools, and algorithms used throughout project ✓ Result of analysis ✓ Recommendation for future analysis ✓ Anything the team would have done differently **Slides** Presentations are finalized in Google Slides. ✓ Slides are evenly split between primarily image slides and primarily text slides ✓ Images are clear, in high-definition, and illustrative of subject matter **Live Presentation** ✓ All team members present in unequal proportions ✓ The team demonstrates interactivity of dashboard in real time ✓ The presentation falls within any time limits provided by instructor ✓ Submission includes speaker notes, flashcards, or a video of the presentation rehearsal	19	**Content** The presentation tells a developing story about their project, including at least seven of the following: ✓ Selected topic ✓ Reason why they selected their topic ✓ Description of their source of data ✓ Questions they hope to answer with the data ✓ Description of the data exploration phase of the project ✓ Description the of analysis phase of the project ✓ Technologies, languages, tools, and algorithms used throughout project ✓ Result of analysis ✓ Recommendation for future analysis ✓ Anything the team would have done differently **Slides** Presentations are finalized in Google Slides. ✓ Slightly more slides are primarily text than are primarily images ✓ Images are illustrative of the subject matter **Live Presentation** ✓ All team members present in unequal proportions ✓ The team demonstrates interactivity of dashboard in real time, with one or two minor bugs or issues ✓ Submission includes speaker notes, flashcards, or a video of the presentation rehearsal	13	**Content** The presentation tells a limited story about their project, including at least five of the following: ✓ Selected topic ✓ Reason why they selected their topic ✓ Description of their source of data ✓ Questions they hope to answer with the data ✓ Description of the data exploration phase of the project ✓ Description of the analysis phase of the project ✓ Technologies, languages, tools, and algorithms used throughout project ✓ Result of analysis ✓ Recommendation for future analysis ✓ Anything the team would have done differently **Slides** Presentations are finalized in Google Slides. ✓ Significantly more slides are primarily text than are primarily images **Live Presentation** ✓ Some team members do not present ✓ The team attempts to demonstrate dashboard in real time ✓ Submission includes speaker notes, flashcards, or a video of the presentation rehearsal	7	
GitHub	Master Branch All code in the master branch is production-ready. All code is clean, commented, easy to read, and adheres to a coding standard (e.g., PEP8) Master branch should include: ✓ All code necessary to perform exploratory analysis ✓ All code necessary to complete machine learning portion of project ✓ Any images that have been created (at least three) ✓ Requirements.txt file README.md README.md must include: ✓ Cohesive, structured outline of the project (this may include images, but should be easy to follow and digest) ✓ Link to dashboard (or link to video of dashboard demo) ✓ Link to Google Slides presentation Note: The descriptions and explanations required in all other project deliverables should also be in your README.md as part of your outline, unless otherwise noted. Individual Branches ✓ At least one branch for each team member ✓ Each team member has at least four commits for the duration of the final segment (16 total commits per person)	10	**Master Branch** Most code in the master branch is production-ready. Most code is clean, commented, easy to read, and adheres to a coding standard (e.g., PEP8) Master branch should include: ✓ All code necessary to perform exploratory analysis ✓ Most code necessary to complete machine learning portion of project ✓ Any images that have been created (at least three) ✓ Requirements.txt file **README.md** README.md must include: ✓ Structured outline of the project (this may include images, but should be easy to follow and digest) ✓ Link to dashboard (or link to video of dashboard demo) ✓ Link to Google Slides presentation Note: The descriptions and explanations required in all other project deliverables should also be in your README.md as part of your outline, unless otherwise noted. **Individual Branches** ✓ At least one branch for each team member ✓ Each team member has at least two commits for the duration of the final segment	7	**Master Branch** Some code in the master branch is production-ready. Some code is clean, commented, easy to read, and adheres to a coding standard (e.g., PEP8) Master branch should include: ✓ All code necessary to perform exploratory analysis ✓ Most code necessary to complete machine learning portion of project ✓ Any images that have been created (at least three) ✓ Requirements.txt file **README.md** README.md must include: ✓ Outline of the project ✓ Link to dashboard (or link to video of dashboard demo) ✓ Link to Google Slides presentation Note: The descriptions and explanations required in all other project deliverables should also be in your README.md as part of your outline, unless otherwise noted. **Individual Branches** ✓ At least one branch for each team member ✓ Each team member has at least two commits for the duration of the final segment	4	**Master Branch** Some code in the master branch is production-ready. Some code is clean, commented, easy to read, and adheres to a coding standard (e.g., PEP8) Master branch should include: ✓ All code necessary to perform exploratory analysis ✓ Most code necessary to complete machine learning portion of project ✓ Any images that have been created (at least three) ✓ Requirements.txt file **README.md** README.md must include: ✓ Outline of the project ✓ Link to dashboard (or link to video of dashboard demo) ✓ Link to Google Slides presentation Note: The descriptions and explanations required in all other project deliverables should also be in your README.md as part of your outline, unless otherwise noted. **Individual Branches** ✓ At least one branch for each team member	1	**No submission was received** **-OR-** **Submission was empty or blank** **-OR-** **Submission contains evidence of academic dishonesty**
Machine Learning Model	Team members submit the working code for their machine learning model, as well as the following: ✓ Description of data preprocessing ✓ Description of feature engineering and the feature selection, including the team's decision-making process ✓ Description of how data was split into training and testing sets ✓ Explanation of model choice, including limitations and benefits ✓ Explanation of changes in model choice (if changes occurred between the Segment 2 and Segment 3 deliverables) ✓ Description of how model was trained (or retrained, if they are using an existing model) ✓ Description and explanation of model's confusion matrix, including final accuracy score Additionally, the model obviously addresses the question or problem the team is solving. Note: If statistical analysis is not included as part of the current analysis, include a description of how it would be included in the next phases of the project.	25	Students submit the working code for their machine learning model, as well as five or six of the following: ✓ Description of data preprocessing ✓ Description of feature engineering and the feature selection, including the team's decision-making process ✓ Description of how data was split into training and testing sets ✓ Explanation of model choice, including limitations and benefits ✓ Explanation of changes in model choice (if changes occurred between the Segment 2 and Segment 3 deliverables) ✓ Description of how model was trained (or retrained, if they are using an existing model) ✓ Description and explanation of model's confusion matrix, including final accuracy score Additionally, the model obviously addresses the question or problem the team is solving.	19	Students submit the working code for their machine learning model, as well as three or four of the following: ✓ Description of data preprocessing ✓ Description of feature engineering and the feature selection, including the team's decision-making process ✓ Description of how data was split into training and testing sets ✓ Explanation of model choice, including limitations and benefits ✓ Explanation of changes in model choice (if changes occurred between the Segment 2 and Segment 3 deliverables) ✓ Description of how model was trained (or retrained, if they are using an existing model) ✓ Description and explanation of model's confusion matrix, including final accuracy score Additionally, the model does not obviously address the question or problem the team is solving.	13	Students submit the code for their machine learning model, as well as one or two of the following: ✓ Description of data preprocessing ✓ Description of feature engineering and the feature selection, including the team's decision-making process ✓ Description of how data was split into training and testing sets ✓ Explanation of model choice, including limitations and benefits ✓ Explanation of changes in model choice (if changes occurred between the Segment 2 and Segment 3 deliverables) ✓ Description of how model was trained (or retrained, if they are using an existing model) ✓ Description and explanation of model's confusion matrix, including final accuracy score Additionally, the model does not obviously address the question or problem the team is solving.	7	

Database	Team members present a final project with a fully integrated database. ✓ Database stores static data for use during the project ✓ Database interfaces with the project in some format (e.g., scraping updates the database, or database connects to the model) ✓ Includes at least two tables (or collections, if using MongoDB) ✓ Includes at least one join using the database language (not including any joins in Pandas) ✓ Includes at least one connection string (using SQLAlchemy or PyMongo) Note: If you use a SQL database, you must provide your ERD with relationships.	25	Team members present database that accomplishes four of the following: ✓ Database stores static data for use during the project ✓ Database interfaces with the project in some format (e.g., scraping updates the database) ✓ Includes at least two tables (or collections, if using MongoDB) ✓ Includes at least one join using the database language (not including any joins in Pandas) ✓ Includes at least one connection string (using SQLAlchemy or PyMongo) Note: If you use a SQL database, you must provide your ERD with relationships.	19	Team members present database that accomplishes three of the following: ✓ Database stores static data for use during the project ✓ Database interfaces with the project in some format (e.g., scraping updates the database) ✓ Includes at least two tables (or collections, if using MongoDB) ✓ Includes at least one join using the database language (not including any joins in Pandas) ✓ Includes at least one connection string (using SQLAlchemy or PyMongo) Note: If you use a SQL database, you must provide your ERD with relationships.	13	Team members present database that accomplishes two of the following: ✓ Database stores static data for use during the project ✓ Database interfaces with the project in some format (e.g., scraping updates the database) ✓ Includes at least two tables (or collections, if using MongoDB) ✓ Includes at least one join using the database language (not including any joins in Pandas) ✓ Includes at least one connection string (using SQLAlchemy or PyMongo) Note: If you use a SQL database, you must provide your ERD with relationships.	7	
Dashboard	The dashboard presents a data story that is logical and easy to follow for someone unfamiliar with the topic. It includes all of the following: ✓ Images from the initial analysis ✓ Data (images or report) from the machine learning task ✓ At least one interactive element Either the dashboard is published or the submission includes a screen capture video of it in action.	15	The dashboard presents a data story that is logical and easy to follow for someone unfamiliar with the topic. It includes two of the following: ✓ Images from the initial analysis ✓ Data (images or report) from the machine learning task ✓ At least one interactive element Additionally, either the dashboard is published or the submission includes a screen capture video of it in action.	12	The dashboard presents a data story that is logical. It includes one of the following: ✓ Images from the initial analysis ✓ Data (images or report) from the machine learning task ✓ At least one interactive element Additionally, either the dashboard is published or the submission includes a screen capture video of it in action.	9	The dashboard presents a data story. It includes one of the following: ✓ Images from the initial analysis ✓ Data (images or report) from the machine learning task ✓ At least one interactive element Additionally, either the dashboard is published or the submission includes a screen capture video of it in action.	6	
TOTAL		100		76		52		28	

	Individual Self-Assessment 3% of final grade								
	Mastery		**Approaching Mastery**		**Emerging**		**Progressing**		**Incomplete**
Self-Assessment	Presents a cohesive written analysis that describes the role(s) they played over the course of the project and their contribution to the project in that role. Presents a cohesive written summary of how they contributed to each of the roles they did not take on via team discussions, peer reviews, or other means. Additionally, the analysis should describe their greatest personal challenge over the course of the project, and how they overcame that challenge.	4	Presents a developing written analysis that describes the role(s) they played over the course of the project and their contribution to the project in that role. Presents a developing written summary of how they contributed to each of the roles they did not take on via team discussions, peer reviews, or other means. Additionally, the analysis should describe their greatest personal challenge over the course of the project, and how they overcame that challenge.	3	Presents either a developing written analysis that describes the role(s) they played over the course of the project and their contribution to the project in that role or a developing written summary of how they contributed to each of roles they did not take on via team discussions, peer reviews, or other means. Additionally, the analysis should describe their greatest personal challenge over the course of the project, and how they overcame that challenge.	2	Presents **either** a limited written analysis that describes the role(s) they played over the course of the project and their contribution to the project in that role **or** a limited written summary of how they contributed to each of roles they did not take on via team discussions, peer reviews, or other means.	1	**No submission was received** **-OR-** **Submission was empty or blank** **-OR-** **Submission contains evidence of academic dishonesty**
Team Assessment	Presents a cohesive written analysis that describes their teamwork, including all of the following: ✓ Their communication protocol, including any challenges, how they were resolved, and what they would do differently next time ✓ Their strengths as a team, including tips and tricks they would want to share with a new cohort kicking off the project	3	Presents a developing written analysis that describes their teamwork, including all of the following: ✓ Their communication protocol, including any challenges, how they were resolved, and what they would do differently next time ✓ Their strengths as a team, including tips and tricks they would want to share with a new cohort kicking off the project	2	Presents a developing written analysis that describes their teamwork, including one of the following: ✓ Their communication protocol, including any challenges, how they were resolved, and what they would do differently next time ✓ Their strengths as a team, including tips and tricks they would want to share with a new cohort kicking off the project	1	Presents a limited written analysis that describes their teamwork, including one of the following: ✓ Their communication protocol, including any challenges, how they were resolved, and what they would do differently next time ✓ Their strengths as a team, including tips and tricks they would want to share with a new cohort kicking off the project	0.5	
Summary of Project	Presents a cohesive, three- to four-sentence summary of the project that could be used on a LinkedIn profile, in an interview or cover letter, or as an elevator pitch, including all of the following: ✓ Topic addressed ✓ Machine module used ✓ Results of the analysis	3	Presents a developing three- to four-sentence summary of the project that could be used on a LinkedIn profile, in an interview or cover letter, or as an elevator pitch, including all of the following: ✓ Topic addressed ✓ Machine module used ✓ Results of the analysis	2	Presents a developing two- to three-sentence summary of the project that could be used on a LinkedIn profile, in an interview or cover letter, or as an elevator pitch, including two of the following: ✓ Topic addressed ✓ Machine module used ✓ Results of the analysis	1	Presents a limited two- to three-sentence summary of the project that could be used on a LinkedIn profile, in an interview or cover letter, or as an elevator pitch, including one of the following: ✓ Topic addressed ✓ Machine module used ✓ Results of the analysis	0.5	
		10		7		4		2	