	Segment 4 40% of final grade									
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 analysis phase of the project Description of the analysis phase of the project Technologies, languages, tools, and algorithms used throughout the project Rescure the analysis of the analysis of the project of the p	25			Developing Proficiency  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  Description of their source of data  Description of the data exploration phase of the project  Description of the data exploration phase of the project  Description of the data exploration phase of the project  Description of the data exploration phase of the project  Description of the data exploration phase of the project  Description of the data exploration phase of the project  Description of the data exploration phase of the project  Description of the data exploration phase of the project  Description of the data exploration phase of the project  Description of the data exploration phase of the project  Description of the data exploration phase of the project  Description of the data exploration phase of the project  Description of the data exploration phase of the project  Description of the data exploration phase of the project  Description of the data exploration phase of the project  Description of the data exploration phase of the project  Description of the data exploration phase of the project  Description of the data exploration phase of the project  Description of the data exploration phase of the project  Description of the data exploration phase of the project  Description of the data exploration phase of the project  Description of the data exploration phase of the project  Description of the data exploration phase of the project  Description of the data exploration phase of the project  Description of the data exploration phase of the project  Description of the data exploration phase of the project  Description of the data exploration phase of the project  Description of the data exploration phase of the project  Description of the data exploration phase of the project  Description of the data exploration phase of the project  Description of the data exploration pha	13	Emerging  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 Bescription of their source of data Questions they hope to answer with the data Description of the data exploration phase of the project Bescription of the analysis phase of the project Echnologies, languages, tools, and algorithms used throughout project Result of analysis Recommendation for future analysis Retommendation for future analysis Resentations are finalized in Google Slides.  Significantly more slides are primarily text than are primarily images  Live Presentation	7	Incomplete	
	✓ 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		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		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  Main Branch		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			
GitHub	Main Branch All code in the main branch is production-ready. All code is clean, commented, easy to read, and adheres to a coding standard (e.g., PEP8)  Main 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 bt file  README md  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	Main 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)  Main 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 Google Sildes 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	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)  Main 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 README.md (or link to video of dashboard demo) / 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	Main 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)  Main 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.bt file  README.md README.md README.md (re link to video of dashboard demo) / 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 wa empty or blank -OR- Submission	
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.	ets d 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 model choice, including limitations and selection 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.	e d s	Submission contains evidence of academic dishonesty	

TOTAL		00	76		52		28	
Dashboard	/ 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.	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	I Images from the initial analysis Data (images or report) from the machine learning task I tleast one interactive element Additionally, either the dashboard is published or the submission includes a screen capture video of it in action.	9	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	
	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:	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:		The dashboard presents a data story that is logical. It includes one of the following:		The dashboard presents a data story. It includes one of the following:		
∂atabase	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.	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 SQLAIchemy 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 MongolBs) / Includes at least one join using the database language (not including any joins in Pandas) / Includes at least one connection string (using SQLAichemy or PyMongo) Note: If you use a SQL database, you must provide your ERO with relationships.	7	