Deliverable	Sub-Section	Criteria to Meet	Stage Due First Segment (3/20)	Stage Due Second Segment (4/3)	Stage Due Third Segment (4/10)	Stage Due Fourth Segment (4/13)
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	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.**	**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	**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	**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
	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				

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Deliverable	Sub-Section	Criteria to Meet	Stage Due First Segment (3/20)	Stage Due Second Segment (4/3)	Stage Due Third Segment (4/10)	Stage Due Fourth Segment (4/13)
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.txt file	**Main Branch** Includes a 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.**	**Main Branch** All code in the main branch is production ready. The main branch should include: All code necessary to perform exploratory analysis Some code necessary to complete the machine learning portion of the project **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)	**Main branch** should include: All code necessary to perform exploratory analysis Most code necessary to complete the machine learning portion of the project **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)	**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.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)
	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)				

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Deliverable	Sub-Section	Criteria to Meet	Stage Due First Segment (3/20)	Stage Due Second Segment (4/3)	Stage Due Third Segment (4/10)	Stage Due Fourth Segment (4/13)
Machine Learning	Team members submit the working code for their machine learning model, as well as the following:	Description of data preprocessing	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 | 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 | 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 decisionmaking 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 | 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. |
		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)				
		Technologies, languages, tools, and algorithms used throughout the project				
		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.				
		Recommendation for future analysis				

Completed
Due Soon
Due Future

Machine Learning

Deliverable	Sub-Section	Final Criteria to Meet	Stage Due First Segment (3/20)	Stage Due Second Segment (4/3)	Stage Due Third Segment (4/10)	Stage Due Fourth Segment (4/13)
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.	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	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**	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.

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Deliverable	Sub-Section	Criteria to Meet	Stage Due First Segment (3/20)	Stage Due Second Segment (4/3)	Stage Due Third Segment (4/10)	Stage Due Fourth Segment (4/13)
Dashboard	The dashboard presents a data story that is logical and easy to follow for someone unfamiliar with the topic. It includes all 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.	N/A	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)	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	The dashboard presents a data story that is logical and easy to follow for someone unfamiliar with the topic. It includes all 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.

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