	Segment 1		Segment 2 19% of final grade		Segment 3		Segment 4 40% of final grade			Individual Self-Assessment 3% of final grade	
	10,000	Points	Description of Proficiency	Points	10,000	Points	Description of Proficiency	Points		Description of Proficiency	Points
Presentation	Content Team members have drafted their project, including the following: / Selected topic / Reason why they selected their topic / Reason why 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 and works as well.	30	Content The presentation outlines the project, including the following: / Selected topic / Season why they selected their topic / Description of their source of data / Description of the data exploration phase of the project / Description of the analysis phase	15	Content The presentation tells a story about their project, including the following: Selected topic Reason why they selected their topic Peason why they shope to data Published Peason why they selected their topic Peason why they selected their topic Peason why they selected the	15	Content The presentation tells a cohesive story about their project, including the following: Selected topic Paesan why they selected their topic Paesan why they selected their topic Description of their source of data Cuestions they hope to answer with the data Paesan why person to the data exploration phase of the project Description of the adalse palson and the project Paesan to the analysis phase of the project Paesan to the project Paesan to the project Paesan to the project Paesan to the project Presentation 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 All team members present in equal proportions 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 nummary of how they contributed to each of the roles they did not take on vite 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.	a 4
GitHub	Main Branch / includes a README.md README.md README and 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	Main Branch All code in the main branch is production-ready. The main branch should include: - All code necessary to perform exploratory analysis - All code necessary to perform exploratory analysis - Some code necessary to complete the machine learning portion of the project - Some code necessary to complete the machine learning portion of the project - Branch Mer README.md - README.md - README md must include 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 Branchee - A latest 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	Main Branch All code in the main branch is production-ready. Main branch should include: / All code necessary to perform exploratory with the code necessary to complete the machine learning portion of the project README.md RE	10	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 **A performance in the performance in the project of the project **A requirements, but in the project (this may include images, but should **EADME: md must include: **Cohesive, shructured outline of the project (this may include images, but should **Link to disabboard (or link to video of dashboard demo) **Link to disabboard (or link to video of dashboard demo) **Link to disabboard (or link to video of dashboard demo) **Link to disabboard (or link to video or dashboard demo) **Link to disabboard (or link to video or dashboard demo) **Link to disabboard (or link to video or dashboard demo) **Link to disabboard (or link to video or dashboard demo) **Link to disabboard (or link to video or dashboard demo) **Link to disabboard (or link to video or dashboard demo) **Link to disabboard (or link to video or dashboard demo) **Link to disabboard (or link to video or dashboard demo) **Link to disabboard (or link to video or dashboard demo) **Link to disabboard (or link to video or dashboard demo) **Link to disabboard (or link to video or dashboard demo) **Link to disabboard (or link to video or dashboard demo) **Link to disabboard (or link to video or dashboard demo) **Link to disabboard (or link to video or dashboard demo) **Link to disabboard (or link to video or dashboard demo) **Link to disabboard (or link to video or dashboard demo) **Link to disabboard (or link to video or dashboard demo) **Link to disabboard (or link to video or dashboard demo) **Link to disabboard (or link to video or dashboard d	10	Team Assessment	Presents a cohesive written analysis that describes their teamwork, including all of the following: 7 Their communication protocol, including any challenges, how they were resolved, and what they would do differently next time. 7 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 reliminary feature engineering / Description of preliminary feature engineering decision—making process / Description of how data was split into training and testing sels / 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 and the set of the second process. The second process and testing sets / Explanation of how data was split into training and testing sets / Explanation of model choice, including limitations and benefits / Explanation of theatings in model choice (if straings occurred between the Segment 2 and straings occurred between the Segment 2 and the straings of the second process of t	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 decision-making process */ Description of how data was split into training and testing sets */ Explanation of model choice, including limitations and benefits */ Explanation of romodel choice, including limitations and benefits */ Explanation of changes in model choice (if changes occurred between the */ Explanation of work 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 prich, 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. - Orall actions 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 MongolD9 **Includes at least who tables (or collections, if using MongolD9 **Includes at least one pion using the database /*Includes at least one connection string (using SQLAIchemy 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, flusing MongoDB) / Includes at least one join using the database language (not including any joins in Pandas) / Includes at least one join using the database language (not including any joins in Pandas) / Includes at least one connection string (using SQL Alchemy 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: Z Stonyboard on Google Side(s) Z Becorption of the too(s) that will be used to create final dashboard Z Description of interactive element(s)	15	The dashboard presents a data story that is logical and easy to foliour 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				
	Proficiency		Approaching Proficiency		Developing Proficiency		Emerging		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.	ith 30			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.		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	
GitHub	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.	10	Main 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	Main 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	Main Branch ✓ Includes a README.md	1	No submission was received -OR- Submission was empty or blank -OR- Submission
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 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 provisional parning model that stands in al machine learning model and accomplishes the following: In data in from the provisional as label(s) for input data In description of the final and accomplishes the following and accomplishes the following. Takes in data in from the provisional of the final and accomplishes the final and accomplishes the final and accomplishes the following. Takes in data in from the provisional data that stands in for the final database and accomplishes the following, with some memorers: Team members present a provisional machine learning model that stands in for the final adatabase and accomplishes the following, with some members present a provisional database and accomplishes the following. Team members present a provisional machine learning model that stands in for the final adactomplishes in for the final accomplishes the following.		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* 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		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 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	contains evidence of academic dishonesty
Dashboard	n/a	0		0		0		0	
		100		76		52		28	+

					Segment 2 19% of final grade				
	Proficiency		Approaching Proficiency		Developing Proficiency		Emerging		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	Main Branch All code in the main branch is production- ready. The main branch should include:	10	Main Branch Most code in the master branch is production-ready. Main 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	Main Branch Some code in the master branch is production-ready. Main 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	Main Branch No code in the master branch is production-ready. Main 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 wa empty or blank
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	-OR- Submission contains evidence of academic dishonesty

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:		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	

Proficiency ontent ne presentation tells a story about their oject, including the following: Selected topic Reason why they selected their topic Description of their source of data Questions they hope to answer with the ata Description of the data exploration phase the project Description of the analysis phase of the oject Technologies, languages, tools, and gorithms used throughout the project lides resentations are drafted in Google Slides. ain Branch I code in the main branch is production- ady.	15	Approaching Proficiency Content The presentation tells a story about their project, including six of the following: Selected topic Peason 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 Sildes 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 / 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	6	Incomplete
ne presentation tells a story about their oject, including the following: Selected topic Reason why they selected their topic Description of their source of data Questions they hope to answer with the ata Description of the data exploration phase the project Description of the analysis phase of the oject in the project of the description of the analysis phase of the oject in the project in the project in the project ides essentations are drafted in Google Slides. ain Branch I code in the main branch is production-ady.	15	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 Description of the analysis phase of the project Including the project Including the project Slides	12	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 ✓ Description of the analysis phase of the project ✓ Technologies, languages, tools, and algorithms	9	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	6	
ll code in the main branch is production- eady.						✓ Description of the analysis phase of the project ✓ Technologies, languages, tools, and algorithms used throughout project		
ember Each team member has at least four mmits for the duration of the third segment	10	Main Branch Most code in the master branch is production- ready. Main 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	Main Branch Some code in the master branch is production- ready. Main branch should include: / All code necessary to perform exploratory analysis / Some code necessary to complete machine learning portion of project 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	Main Branch No code in the master branch is production-ready. Main 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
/ At least one branch for each team member member / Each team member has at least four commits for the duration of the third segment 12 total commits per person) Team members submit the working code for heir machine learning model, as well as the ollowing: / Description of data preprocessing / Description of feature engineering and the leature selection, including their decision-making process / Description of how data was split into raining and testing sets / Explanation of model choice, including mimitations 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 hat will take place / Description of current accuracy score		Students submit the working code for their machine learning model, as well as five or six of the following. Jescription 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	contains evidence of academic dishonesty
At I emb Eaconmm 2 tool	east one branch for each team er ht eam member has at least four lits for the duration of the third segment lad commits per person) members submit the working code for nachine learning model, as well as the ng: scription of data preprocessing scription of feature engineering and the e selection, including their decision-g process scription of how data was split into g and testing sets planation of model choice, including ions and benefits planation of changes in model choice (if es occurred between the Segment 2 egment 3 deliverables) scription of how they have trained the thus far, and any additional training ill take place	east one branch for each team er	Individual Branches east one branch for each team er th team member has at least four its for the duration of the third segment all committs per person) members submit the working code for nachine learning model, as well as the ng: scription of data preprocessing scription of feature engineering and the e selection, including their decision- g process scription of how data was split into g and testing sets blanation of model choice, including ions and benefits blanation of changes in model choice (if es occurred between the Segment 2 egment 3 deliverables) scription of how they have trained the thus far, and any additional training ill take place scription of current accuracy score sonally, the model obviously addresses estion or problem the team is solving. 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Individual Branches A t least one branch for each team member A t least one branch for each team member A t least one branch for each team member A t least one branch for each team member A t least one branch for each team member A tleast one branches A tleast one branch for each team member A tleast one branches A tleast one branch for each team member A beach team member has at least two commits for the duration of the third segment But a beach team member has at least two commits for the duration of the third segment A beach team member has at least two commits for the duration of the third segment But a beach team member A beach team member has at least two commits for the duration of that preprocessing A beach team member has at least two commits for the duration of the third segment A beach team member has at least two commits for the duration of the third segment A beach team member A beach team member a teach team member A beach team member a	Individual Branches east one branch for each team er ch team member has at least four tits for the duration of the third segment all committs per person) members submit the working code for nachine learning model, as well as the ng: scription of data preprocessing scription of feature engineering and the e selection, including their decision- g process scription of how data was split into g and testing sets blanation of model choice, including ons and benefits blanation of changes in model choice (if es occurred between the Segment 2 egment 3 deliverables) scription of how they have trained the thus far, and any additional training ill take place scription of current accuracy score Additionally, the model obviously addresses Individual Branches / At least one branch for each team member / Each team member has at least tone / At least one branch for each team member / Each team member has at least two commits for the duration of the third segment 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 how data was split into training and testing sets / 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	Individual Branches least one branch for each team er ch team member has at least four tist for the duration of the third segment all adcommits per person) members submit the working code for hachine learning model, as well as the selection, including their decision- g process scription of fow data was split into g and testing sets solanation of model choice, including sons and benefits oblanation of model choice, including sons and benefits oblanation of model when the Segment 2 segment 3 deliverables) scription of current accuracy score anally, the model obviously addresses estion or problem the team is solving. 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Description of feature engineering and the feature selection, including their decision-making process / Description of how data was split into training and testing sets / Each team member / Each team	Individual Branches east one branch for each team er er er h team member has at least four its for the duration of the third segment all commits per person) Students submit the working code for nachine learning model, as well as the ng: Students submit the working code for their machine learning model, as well as the ng: Students submit the working code for their machine learning model, as well as the ng: Students submit the working code for their machine learning model, as well as five or six of the following. 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ashboard	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: I mages 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	

			Segr 40% of f	nent 4					
	Proficiency		Approaching Proficiency	ui gi	Developing Proficiency		Emerging		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 data exploration phase of the project Technologies, languages, tools, and algorithms used throughout the project Result of 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	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 Ouestions they hope to answer with the data Description of the data exploration phase of the project Description of the data exploration 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 Sildes Presentations are finalized in Google Slides. / Slides are evenly split between primarily image slides and primarily text slides I mages are clear, in high-definition, and illustrative of subject matter Live Presentation I high-definition, and illustrative of subject matter 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	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 / Technologies, languages, tools, and algorithms used throughout project / Tesult of 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	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 of Technologies, languages, tools, and algorithms used throughout project Result of analysis Recommendation for future analysis Recommendation for future analysis Presentations are finalized in Google Slides. Silides 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	7	
GitHub	presentation rehearsal 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 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 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 four commits for the duration of the final segment (16 total commits per person)		instructor ✓ Submission includes speaker notes, flashcards, or a video of the presentation rehearsal 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 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	or issues ✓ Submission includes speaker notes, flashcards, or a video of the presentation rehearsal 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.btt file README.md README md must include: ✓ 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	✓ Submission includes speaker notes, flashcards, or a video of the presentation rehearsal 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.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 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 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 how data was split into training and testing sets / Explanation of how del 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	contains evidence of academic dishonesty

TOTA		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	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	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:	
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 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 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 noe 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 noe 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

				ln	dividual Self-Assessment 3% of final grade				
	Proficiency		Approaching Proficiency		Developing Proficiency		Emerging		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
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:	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	-OR- Submission was empty or blank -OR- Submission contains evidence of academic
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	dishonesty
		10		7		4		2	