Grade received 100% To pass 100% or higher

To pass this practice quiz, you must receive 100%, or 1 out of 1 point, by completing the activity below. You can learn more about the graded and practice items in the <u>course overview</u> [2].



For additional information on how to complete this activity, review the previous readings: End-of-course project introduction \(\textstyle \) and Course 2 end-of-course portfolio project overview: TikTok ☐. Be sure to complete this activity before moving on. The next course item will provide you with completed exemplars to compare to your own work. You will not be

able to access the exemplars until you have completed this activity.

Scenario

The team's latest project is in its early stages of developing a machine learning model to classify claims in videos.

for analysis.

You discover two new emails in your inbox: one from your supervisor, Rosie Mae Bradshaw, and one from Willow Jaffey, the data team's Data Science Lead. Review the emails, then follow the provided instructions to complete the PACE strategy document, the code notebook, and the executive summary. **Note:** Team member names used in this workplace scenario are fictional and are not representative of TikTok.

Previously, you were asked to complete a project proposal by your supervisor, Rosie Mae Bradshaw. You have received notice that the project proposal submitted by the team has been approved and your team has been given access to TikTok's user data. To get clear insights, the data must be inspected, organized, and prepared

Email from Rosie Mae Bradshaw, Data Science Manager

From: "Bradshaw, Rosie Mae" -rosiemaebradshaw@tiktok

Good morning,

I have a couple of updates on our latest project. The leadership team has approved the project proposal that we completed previously. Thanks for all of your great work so far. Additionally, I just received an email from our Project Management Officer, Mary Joanna Rodgers that the data team is clear to proceed.

Before we begin the process of Exploratory Data Analysis (EDA), we could really use your help with coding and prepping the data. During your interview you

Orion Rainier (Cc'd above) started a Jupyter notebook with the relevant dataset (attached). Orion is very involved in the final stages of another project. I'm sure your assistance in completing the coding and setting up the notebook for the project would be greatly appreciated.

Humblest regards,

Data Science Manager TikTok

Learn about TikTok's Trust & Safety team

☐

Nice to meet you (virtually)!

From: "Rainier, Orion"—orionrainier@tiktok

Cc: "Bradshaw, Rosie Mae" —rosiemaebradshaw@tiktok

machine learning model that can streamline the claims process by identifying whether statements made in videos are claims or opinions.

Tuesday."

There are a number of data team members committed to adjusting the machine learning developed for the last project, so your help is greatly appreciated!

mined gold on Earth comes from one source."

for the team? It would be fantastic if you could include a summary of the column Data types, data value nonnull counts, relevant and irrelevant columns, along with anything else code related you think is worth sharing/showing in the notebook? You'll need to select a couple of variables to focus on. Include their minimum and maximum values. I haven't looked closely at the data yet, but it would be really helpful if you can create meaningful variables by combining or modifying the

A claim refers to information that is either unsourced or from an unverified source. For example, "The news reported that someone revealed that around 50% of the

Opinions refer to the personal beliefs or thoughts of a group or an individual. Here's an example, "In my opinion the most productive work day of the week is

Orion Rainier

"Big data isn't about bits, it's about talent." — Douglas Merrill

Follow the instructions to complete the activity. Then, go to the next course item to compare your work to a completed exemplar.

Step-By-Step Instructions

Links to templates: Course 2 PACE strategy document [2]

Activity Template_ Course 2 PACE strategy document

DOCX File

PPTX File

Executive summary templates [2]

OR

Step 2: Access the end-of-course project lab

To access the end-of-course project lab, click the following link and select *Open Lab*.

Combining or modifying data structures to create meaningful variables

Python notebook to inspect and organize your data. You'll find helpful reminders for tasks like:

To use the templates for this course item, click the following links and select *Use Template*.

If you do not have a Google account, you can download the templates directly from the following attachments:

Importing data Loading necessary packages

Use your completed PACE strategy document and Python notebook to help you prepare your executive summary in the next step.

Data Dictionary

12 columns

Column name

claim_status

video_id

video_duration_sec

verified_status

author_ban_status

video download count

video_comment_count

video_transcription_text

TikTok assigned number for video with claim/opinion. int Whether the published video has been identified as an "opinion" or a "claim." In this dataset, an "opinion" refers to

Random identifying number assigned to video upon publication on TikTok.

How long the published video is measured in seconds.

The total number of comments on the published video.

Transcribed text of the words spoken in the published video.

an individual's or group's personal belief or thought. A "claim" refers to information that is either unsourced or from

Indicates the status of the TikTok user who published the video in terms of their verification, either "verified" or

Indicates the status of the TikTok user who published the video in terms of their permissions: "active," "under

Note: The following lab is also the next course item. Once you complete and submit your end-of-course project activity, return to the lab instructions' page and

Your Python notebook for this project includes a guided framework that will assist you with the required coding. Input the code and answer the questions in your

You will also discover questions in this Python notebook designed to help you gather the relevant information you'll need to write an executive summary for your

The total number of times the published video has been shared by other users.

Step 4: Prepare an executive summary Your executive summary will keep your teammates at TikTok informed of your progress. The one-page format is designed to respect teammates and stakeholders who may not have time to read and understand an entire report. First, select one of the executive summary design layouts from the provided template. Then, add the relevant information. Your executive summary should include the following:

Finally, be sure to save a blank copy of the templates you used to complete this activity. You can use them for further practice or in your professional projects. These

templates will help you work through your thought processes and demonstrate your experience to potential employers. What to Include in Your Response

Pro Tip: Save the templates

A summary of your tasks

activity. Course 2 PACE strategy document: Answer the questions in the PACE strategy document

Import, inspect, and organize data Course 2 executive summary:

Course 2 TikTok project lab:

- Identify recommended next steps in order to build a predictive model
- Did you complete this activity?

Yes

() No

1/1 point

Activity Overview In this activity, you will complete a project that showcases your ability to use Python to import, inspect, and organize data. You will also update team members through an executive summary, demonstrating your ability to organize and communicate key information.

Subject: Help with coding notebook?

Cc: "Rainier, Orion"—orionrainier@tiktok

mentioned that you worked with Python specifically in the Google certificate program you completed. That experience sounds applicable here.

Orion, do you mind sharing the details?

Rosie Mae Bradshaw_

Email from Orion Rainier, Data Scientist Subject: RE: Help with coding notebook?

Hope you have enjoyed your first few weeks! With the project proposal approved, we are ready to begin the process of preparing the claim classification data. The goal of this project is to ultimately build a

Until we finish the prior project, there is no need to do a full EDA on this data. We will get to that soon. Do you mind importing the data (attached) and reviewing it

Data Scientist TikTok

structures given.

Thanks,

Step 1: Access the templates

Activity Templates_ Executive summaries

click Next to continue on to the exemplar reading.

Course 2 TikTok project lab

Identifying relevant data structures and summarizing data Extracting information from columns

This project uses a dataset called tiktok_dataset.csv. It contains synthetic data created for this project in partnership with TikTok. Examine each data variable gathered. 19,383 rows – Each row represents a different published TikTok video in which a claim/opinion has been made.

Type

obj

int

int

obj

obj

obj

float

float

Description

an unverified source.

The total number of times the published video has been viewed. float video_view_count video_like_count The total number of times the published video has been liked by other users. float

scrutiny," or "banned."

"not verified."

Step 3: Complete your PACE strategy document The Course 2 PACE strategy document includes questions that will help guide you through the Course 2 TikTok workplace scenario project. Answer the questions in your PACE strategy document to prepare to use Python to inspect and organize your data. As a reminder, the PACE strategy document is designed to help you complete the contents for each of the templates provided. You may navigate back and forth between the PACE strategy document and the Python notebook. Make sure your PACE strategy document is complete before preparing your executive summary.

The total number of times the published video has been downloaded by other users.

Identify recommended next steps in order to build a predictive model Complete your executive summary to effectively communicate your results to your teammates.

Information regarding the results of your data variable assessment

Later, you will have the opportunity to self assess your performance using the criteria listed below. Be sure to address the following elements in your completed

A summary of your tasks Information regarding the results of your data variable assessment

(V) Correct

Thank you for completing this activity! Using Python to inspect and organize your data is a key step in any data analysis project. Further, effectively communicating your findings with an executive summary is an important skill for any data professional. Go to the next course

item to compare your work to completed exemplars.