Course One Foundations of Data Science



Instructions

Use this PACE strategy document to record decisions and reflections as you work through this end-of-course project. You can use this document as a guide to consider your responses and reflections at different stages of the data analytical process. Additionally, the PACE strategy documents can be used as a resource when working on future projects.

Course Project Recap

Regardless of which track you have chosen to complete, your goals for this project are:

Complete the PACE Strategy Document to plan your project while considering your audience
members, teammates, key milestones, and overall project goal.

☐ Create a project proposal for the data team.

Relevant Interview Questions

Completing this end-of-course project will empower you to respond to the following interview topics:

- As a new member of a data analytics team, what steps could you take to get 'up to speed' with a current project? What steps would you take? Who would you like to meet with?
- How would you plan an analytics project?
- What steps would you take to translate a business question to an analytical solution?
- Why is actively managing data an important part of a data analytics team's responsibilities?
- What are some considerations you might need to be mindful of when reporting results?

Reference Guide

This project has three tasks; the following visual identifies how the stages of PACE are incorporated across those tasks.



Data Project Questions & Considerations



• Who is your audience for this project?

Rosie Mae Bradshaw, TikTok's Data Analysis Manager

 What are you trying to solve or accomplish? And, what do you anticipate the impact of this work will be on the larger needs of the client?

Development of machine learning techniques that will assist in distinguishing between claims or opinions within content on the TikTok platform.

With the number of submissions and interactions on TikTok each day, it's challenging for our moderators to review each video, user comment, and content claim in a timely manner, so the impact of the work must be large.

What questions need to be asked or answered?

What kind of data we have?

What are the difference and definition between claim and opinion?

What resources are required to complete this project?

From each video content, user comment, and content claim in a timely manner.

What are the deliverables that will need to be created over the course of this project?

The machine learning model, probably with video classification model and Natural Language Model.

THE PACE WORKFLOW



[Alt-text: The PACE Workflow with the four stages in a circle: plan, analyze, construct, and execute.]

You have been asked to demonstrate for the company's data team how you would use the PACE workflow to organize and classify tasks for the upcoming project. Select a PACE stage from the dropdown buttons. A few tasks involve more than one stage of the PACE workflow. Additionally, not every workplace scenario will require every task. Refer back to the Course 1 end-of-course portfolio project overview reading if you need more information about the tasks within the project.

Project tasks

Following are a group of tasks your company's data team has determined need to be completed within this project. The data analysis manager has asked you to organize these tasks in preparation for the project proposal document. First, identify which stage of the PACE workflow each task would best fit under using the drop down menu. Next, give an explanation of why you selected the stage for each task. Review the following readings to help guide your selections and explanation: The PACE stages and Communicate objectives with a project proposal. You will later reorder these tasks within a project proposal.

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projec	t proposal. You will later reorder these tasks within a project proposal.
1.	Evaluating the model: Construct
	Why did you select this stage for this task?
	Because it's after constructing model
2.	Conduct hypothesis testing: Plan and Analyze
	Why did you select these stages for this task?
	After we have clean data, we can conduct hypothesis testing
3.	Begin exploring the data: Analyze *
	Why did you select this stage for this task?
	Because it's the first step of analyze, dealing with data
4.	Data exploration and cleaning: Plan and Analyze
	Why did you select these stages for this task?
	Because we explore the data and also clean the data

5.	Establish structure for project workflow (PACE): Plan
	Why did you select this stage for this task?
	It's planing a blueprint for a project.
6.	Communicate final insights with stakeholders: Execute
	Why did you select this stage for this task?
	After we have the result and finding from the data, we have to keep in touch with the stakeholders and tell them the progress and information we have.
7.	Compute descriptive statistics: Analyze
	Why did you select this stage for this task?
	Part of exploration of data
8.	Visualization building: Construct and Execute
	Why did you select these stages for this task?
	We build visualizations to see the trend or pattern clearly to construct the model.
9.	Write a project proposal: Plan
	Why did you select this stage for this task?
	Before starting the project, we plan.

10. Build a regression model: Analyze and Construct			
Why did you select this stage for this task?			
Building regression model and test it involves analyze			
11. Compile summary information about the data: Execute			
Why did you select this stage for this task?			
Gather the information that we found			
40. P. Talana da La Carada da Carada			
12. Build machine learning model: Construct			
Why did you select this stage for this task?			
Constructing data			
Constructing data			