

PROJECT SCENARIO: DATA ANALYST AT AUTOMATIDATA

Automatidata works with its clients to transform their unused and stored data into useful solutions, such as performance dashboards, customer-facing tools, strategic business insights, and more. They specialize in identifying a client's business needs and utilizing their data to meet those business needs.

Automatidata is consulting for the **New York City Taxi and Limousine Commission (TLC)**. New York City TLC is an agency responsible for licensing and regulating New York City's taxi cabs and for-hire vehicles. The agency has partnered with Automatidata to develop a regression model that helps estimate taxi fares before the ride, based on data that TLC has gathered.

The TLC data comes from over 200,000 taxi and limousine licensees, making approximately one million combined trips per day.

PROJECT BACKGROUND: TLC PROJECT

Automatidata is in the earliest stages of the TLC project. The following tasks are needed before the team can begin the data analysis process:

A project proposal identifying the following:

- Organize project tasks into milestones

- Classify tasks using the PACE workflow

- Identify relevant stakeholders

For the first assignment, Automatidata will need a project proposal that will create milestones for the tasks within the TLC project. Remember to take into account your audience, team, project goal, and PACE stages of each task in planning your project deliverable.

TEAM MEMBERS AT AUTOMATIDATA & NEW YORK CITY TLC

AUTOMATIDATA Team Members:

[Tony Stark](#) (Director of Data Analysis)

[Thor Odinson](#) (Data Analysis Manager)

[Bruce Banner](#) (Senior Data Analyst)

[Steven Rogers](#) (Senior Project Manager)

NEW YORK CITY TLC Team Members:

[Natasha Romanoff](#) (Finance and Administration Department Head)

[Clint Barton](#) (Operations Manager)

Meeting notes via email

From: [Thor Odinson](#) (Data Analysis Manager)

Subject: Review meeting notes

If you are able to read this, then your company accounts have been created! Now is the perfect time to get started. Last week, I attended an internal meeting with our leadership team about a new project we are about to begin. You'll receive more information in the next few days, but I would like you to be aware of some needs that were identified by our leadership team. Here is an excerpt from the notes I took during the Automatidata leadership team meeting. I've organized the points by the person who made them.

[Steven Rogers](#) (Senior Project Manager)

- The data team will need a global-level project document to outline the goals and milestones.
- I am working closely with [Clint Barton](#) over at the New York City Taxi and Limo Commission. He has requested some visuals to share with TLC's executives.

Bruce Banner (Senior Data Analyst)

- The dataset from TLC has to be inspected before any analysis can begin.
- Our team needs to determine what information the TLC data provides through exploratory data analysis (EDA).
- Eventually, our team will need to test to find if the model is delivering consistent results.

Tony Stark (Director of Data Analysis)

- Before we present any insights to TLC, we'll need to determine whether or not the model we produce meets the project requirements.
- Once we have a final model, I'll need to know the main talking points going into our presentation with TLC.

My thoughts and concerns...

- I think it's best to use **Python for the TLC project**. I'll have someone on my team set that up as soon as we have the plan in place.
- It will be important to establish the relationship between any variables within the TLC data. I'd suggest the data team consider A/B testing, since that will analyse the relationship between the two most useful variables and subsequently provide data-driven support for future business decisions.

Review the meeting notes above to become familiar with the project's context. I'll ask you to identify project tasks and come up with a structure to guide the data team through this project. After our discussion about your experience in the certificate program offered by Google, I know that your efficient communication style and problem-solving will enhance the abilities of the data team.

There will be more details sent to you very soon.

Welcome to the team

Thor Odinson (Data Analysis Manager)