

Apply your skills to a workplace scenario

Automatidata scenario

TikTok scenario

Waze scenario

Reading: Course 4 end-of-course portfolio project overview: Waze
20 min

Practice Quiz: Activity: Create your Course 4 Waze project
1 question

Lab: Activity: Course 4 Waze project lab
1h

Reading: Activity Exemplar: Create your Course 4 Waze project
10 min

Lab: Exemplar: Course 4 Waze project lab
20 min

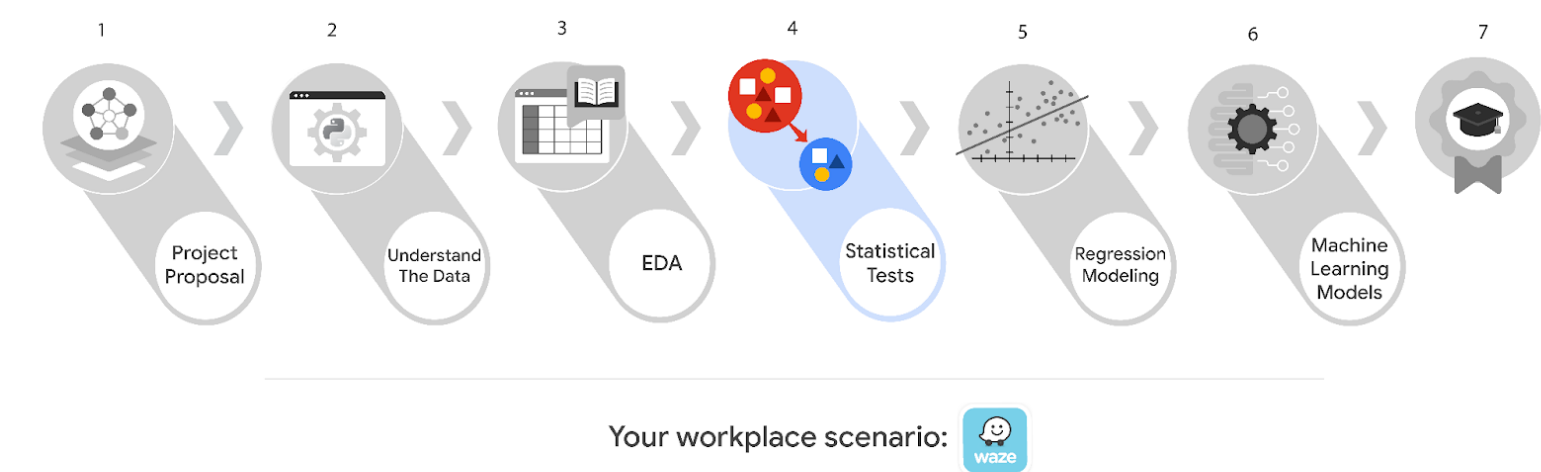
End-of-course portfolio project wrap-up

Course review: The Power of Statistics

Course 4 end-of-course portfolio project overview: Waze

Learn about the Course 4 Waze workplace scenario!

The end-of-course project in Course 4 focuses on your ability to conduct statistical testing within a project. As a reminder, in Course 1 you developed a project proposal that outlined milestones, which progress with each of the end-of-course projects. A visual representation is provided in the graphic shown here:



Learn more about the project, your role, and expectations in this reading.

Background on the Waze scenario

Waze's free navigation app makes it easier for drivers around the world to get to where they want to go. Waze's community of map editors, beta testers, translators, partners, and users helps make each drive better and safer. Waze partners with cities, transportation authorities, broadcasters, businesses, and first responders to help as many people as possible travel more efficiently and safely.

You'll collaborate with your Waze teammates to analyze and interpret data, generate valuable insights, and help leadership make informed business decisions. Your team is about to start a new project to help prevent user churn on the Waze app. Churn quantifies the number of users who have uninstalled the Waze app or stopped using the app. This project focuses on monthly user churn.

This project is part of a larger effort at Waze to increase growth. Typically, high retention rates indicate satisfied users who repeatedly use the Waze app over time. Developing a churn prediction model will help prevent churn, improve user retention, and grow Waze's business. An accurate model can also help identify specific factors that contribute to churn and answer questions such as:

- Who are the users most likely to churn?
- Why do users churn?
- When do users churn?

For example, if Waze can identify a segment of users who are at high risk of churning, Waze can proactively engage these users with special offers to try and retain them. Otherwise, Waze may lose these users without knowing why.

Your insights will help Waze leadership optimize the company's retention strategy, enhance user experience, and make data-driven decisions about product development.

Project background

Waze's data team is working on the churn project. The following tasks are needed at this stage of the project:

- Explore the project data
- Implement a hypothesis test
- Communicate insights with stakeholders within Waze

Your assignment

You will conduct hypothesis testing on the data for the churn data. The data team has asked you to investigate Waze's dataset to determine which hypothesis testing method best serves the data and the churn project.

Team members at Waze

Data team roles

- Harriet Hadzic - Director of Data Analysis
- May Santner - Data Analysis Manager
- Chidi Ga - Senior Data Analyst
- Sylvester Esperanza - Senior Project Manager

Data team members have technical experience with data analysis and data science. However, you should always be sure to keep summaries and messages to these team members concise and to the point.

Cross-functional team members

- Emrick Larson - Finance and Administration Department Head
- Ursula Sayo - Operations Manager

Your Waze team includes several managers overseeing operations. It is important to adapt your communication to their roles since their responsibilities are less technical.

Note: The story, all names, characters, and incidents portrayed in this project are fictitious. No identification with actual persons (living or deceased) is intended or should be inferred. And, the data shared in this project has been created for pedagogical purposes.

Specific project deliverables

With this end-of-course project, you will gain valuable practice of your new skills as you complete the following:

- Complete the questions in the Course 4 PACE strategy document
- Answer the questions in the Jupyter notebook project file
- Conduct a two-sample hypothesis test
- Create an executive summary to share your results

Good luck with this project! Waze looks forward to seeing how you communicate your creative work and approach problem-solving!

Key takeaways

The Google Advanced Data Analytics Certificate end-of-course project is designed for you to practice and apply course skills in a fictional workplace scenario. By completing each course's end-of-course project, you will have work examples that will enhance your portfolio and showcase your skills for future employers.

Mark as completed