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Course 6 end-of-course portfolio project overview: Waze

Learn about the Course 6 Waze workplace scenario!

The end-of-course project in Course 6 focuses on your ability to build a machine learning model for 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.

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

You'll collaborate with your Waze teammates to analyze and interpret data, generate valuable insights, and

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.

Waze's data team is near the end of the churn project. The following tasks are needed to complete the project:

Project background

Model building

You will create the final machine learning model for the churn project. You will be responsible for leading these

Summarize findings for cross-departmental stakeholders within Waze

Model evaluation

Your assignment

final tasks, which include feature engineering, model development, and evaluation.

Team members at Waze

Data team roles

Chidi Ga - Senior Data Analyst

May Santner - Data Analysis Manager

Harriet Hadzic - Director of Data Analysis

- Sylvester Esperanza Senior Project Manager
- always be sure to keep summaries and messages to these team members concise and to the point.

Cross-functional team members

Your Waze team includes several managers overseeing operations. It is important to adapt your

Ursula Sayo - Operations Manager

Note: The story, all names, characters, and incidents portrayed in this project are fictitious. No identification

communication to their roles since their responsibilities are less technical.

Emrick Larson - Finance and Administration Department Head

has been created for pedagogical purposes. Specific project deliverables

with actual persons (living or deceased) is intended or should be inferred. And, the data shared in this project

Data team members have technical experience with data analysis and data science. However, you should

following:

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

Answer the questions in the Jupyter notebook project file

Complete the questions in the Course 6 PACE strategy document

- Design and implement the following machine learning models: random forest and XGBoost
- Create an executive summary to share your results with cross-departmental stakeholders within Waze

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.

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