Google Cloud

Guide to the capstone project

Welcome to the capstone project

Congratulations on reaching the final project of the Google Cloud Data Analytics certificate program. Coming up, you'll have the opportunity to use skills you developed throughout the entire Cloud Data Analytics program within a two-part project that is designed to simulate workplace scenarios cloud data analytics professionals encounter. You'll be responsible for tasks like data collection and exploration, data processing and analysis, and data visualization. Along the way, you'll interact with stakeholders that are depending on your insights to help them make timely, data-driven decisions. Once you complete the capstone project, you'll have practical work examples that you can add to your portfolio to showcase your skills to potential employers.

The capstone project: What to expect

Throughout each course, you were provided with opportunities to use your developing skills to complete labs and activities that focused on specific tasks. Each course's labs and activities build on the knowledge you gained in previous courses, breaking down cloud data analytics processes into smaller segments to reinforce specific data tasks.

However, the capstone project covers the entire cloud data analysis process and you will create one project deliverable that showcases the skills you've learned across the certificate. To complete this project, you'll begin by familiarizing yourself with the capstone project scenario. Next, you'll complete a series of tasks that span two labs and one activity that take you through each step of the data journey and challenge you to use the skills and experience you acquired in each course.

The capstone project scenario will offer opportunities to:

- Collect raw data from various sources.
- Process and store data on the cloud using BigQuery.
- Analyze and visualize the data using Looker Enterprise.
- Activate and share actionable insights with stakeholders.

It is recommended that you keep the Guide to BigQuery and Guide to Looker Enterprise open while working on the capstone for easy reference. Additionally, be sure to take screenshots of your work as you complete each task. If you get stuck along the way, there is a solution guide offering information about the steps needed to complete the tasks for each capstone lab. After completing your capstone project executive summary activity, you'll be able to assess your work with an exemplar that demonstrates a successful project.

Capstone project scenario overview

TheLook Fintech is a new financial technology company that provides loans to independent online store owners who need funds to buy inventory. Its mission is to change the way people get loans to grow their businesses. As a growth-stage startup, TheLook Fintech successfully identified its target market and now has an initiative underway to rapidly scale up.

You've been hired as a cloud data analyst to support the company's efforts to improve data-driven decision making in key areas of operation. Your first assignment is to develop and implement a plan to help the Treasury department use data effectively to track their performance and growth. To do this, you'll use BigQuery to collect, process, and store the data to answer these business questions and prepare a series of reports that help the team better understand their data. Then, you'll build a self-service dashboard showcasing loan health data in a clear and actionable way, enabling the team to proactively manage their loan portfolio and make timely decisions based on up-to-date insights. Afterwards, you'll capture the work you completed in this project in an executive summary, which you're encouraged to add to your own professional portfolio.

Key takeaways

Your capstone project is a chance to apply your cloud data analytics skills and knowledge, demonstrate fundamental cloud data analysis skills to prospective employers, and present what you have learned from the Google Cloud Data Analytics certificate. The capstone project is a great addition to your resume and portfolio as a concrete example of everything you've learned!