



## Reading: Course 7 overview

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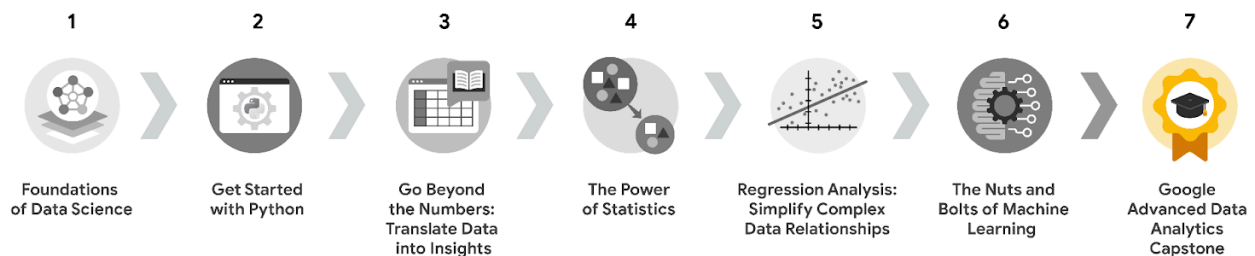
# to Course 7

Hello, and welcome to **Google Advanced Data Analytics Capstone**, the seventh course in the Google Advanced Data Analytics Certificate. You've made such amazing progress on this journey!

In this optional capstone course, you will put all the skills you learned in this program to good use by completing a data project from start to finish. Your capstone project will help you refine your skills in data analytics and augment your professional portfolio with additional examples to share with potential employers during a future job search.

### Course descriptions

The Google Advanced Data Analytics Certificate has eight courses. **Google Advanced Data Analytics Capstone** is the final course.



1. **Foundations of Data Science** — Learn how data professionals operate in the workplace and how different roles in the field of data science contribute to an organization's vision of the future. Then, explore data science roles, communication skills, and data ethics.
2. **Get Started with Python** — Discover how the programming language Python can power your data analysis. Learn core Python concepts, such as data types, functions, conditional statements, loops, and data structures.
3. **Go Beyond the Numbers: Translate Data into Insights** — Learn the fundamentals of data cleaning and visualizations and how to reveal the important stories that live within data.

4. **The Power of Statistics** — Explore descriptive and inferential statistics, basic probability and probability distributions, sampling, confidence intervals, and hypothesis testing.
5. **Regression Analysis: Simplify Complex Data Relationships** — Learn to model variable relationships, focusing on linear and logistic regression.
6. **The Nuts and Bolts of Machine Learning** — Learn unsupervised machine learning techniques and how to apply them to organizational data.
7. **Google Advanced Data Analytics Capstone — (current course)** Complete a hands-on project designed to demonstrate the skills and competencies you acquire in the program.
8. **Accelerate Your Job Search with AI** — Gain practical job search strategies and learn how to leverage AI tools (like Gemini and NotebookLM) to uncover your most valuable skills, create a job search plan, manage your applications, and practice for interviews as you navigate your path to your next role.

## Course 7 content

Each course of this certificate program is broken into modules. You can complete courses at your own pace, but the module breakdowns are designed to help you finish the entire Google Advanced Data Analytics Certificate in about six months.

What's to come? Here's a quick overview of the skills you'll learn in each module of this course.



## Module 1: Capstone project

Similar to the end-of-course projects you've already completed, the capstone project was designed to bring together both the content and the skills you have acquired in your previous courses. Although the end-of-course projects focused on individual course learnings, the capstone project incorporates skills and tasks spanning the entire Google Advanced Data Analytics Certificate. The capstone project is optional; it will not affect your ability to receive your certificate. However, it is highly recommended that you demonstrate what you've learned in the program by completing this final project! Completing the capstone project is a great way to put together everything you've learned, and the final results will be useful for supporting future job applications.

## Module 2: AI in Advanced Data Analytics

You will explore AI opportunities in the field of advanced data analytics.

## Module 3: Put your Advanced Data Analytics Certificate to work

It's time to celebrate your completion of the Google Advanced Data Analytics Certificate! You'll learn how to claim your certificate and receive some final tips on how to best showcase your work examples from the program.

### What to expect

Each course offers many types of learning opportunities:

- **Videos** led by Google instructors teach new concepts, introduce the use of relevant tools, offer career support, and provide inspirational personal stories.
- **Readings** build on the topics discussed in the videos, introduce related concepts, share useful resources, and describe case studies.
- **Self-review activities** and **labs** give you hands-on practice in applying the skills you are learning and allow you to assess your own work by comparing it to a completed example.
- **Practice quizzes** allow you to check your understanding of key concepts and provide valuable feedback.
- **Graded quizzes** demonstrate your understanding of the main concepts of a course. You must score 80% or higher on each graded quiz to obtain a certificate, and you can take a graded quiz multiple times to achieve a passing score.

### Tips for success

- It is strongly recommended that you go through the items in each lesson in the order they appear because new information and concepts build on previous knowledge.
  - Participate in all learning opportunities to gain as much knowledge and experience as possible.
  - If something is confusing, don't hesitate to replay a video, review a reading, or repeat a self-review activity.
  - When you encounter useful links in this course, bookmark them so you can refer to the information later for study or review.
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