Google Cloud

Google Cloud (/)

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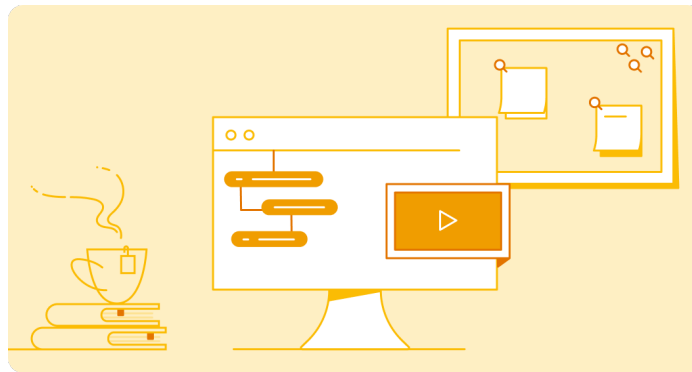
Apply your skills in Google Cloud console

Data Analyst Learning Path

A Data Analyst gathers and analyzes data to identify trends and develops valuable insights to help solve problems and inform business decisions. They have skills in data cleansing, visualization, and analysis including an understanding of data ethics and tooling.

| school | 14 activities | update | Last updated about 2 months | person | Managed by Google Cloud |

A Data Analyst gathers and analyzes data to identify trends and develops valuable insights to help solve problems. This learning path guides you through a curated collection of on-demand courses, labs, and skill badges that provide you with real-world, hands-on experience using Google Cloud technologies essential to the Data Analyst role. Once you complete the path, check out our catalog for 700+ labs and courses to keep going on your professional journey.

Start learning path

(/focuses/2794?parent=catalog&path=18)

01 A Tour of Google Cloud Hands-on Labs

book Lab
access_time 45 minutes
show_chart Introductory

In this first hands-on lab you will access the Google Cloud console and use these basic Google Cloud features: Projects, Resources, IAM Users, Roles, Permissions, and APIs.

Start lab

(/paths/18/course_templates/578)

02 Introduction to Data Analytics on Google Cloud

book Course
access_time 3 hours
show_chart Introductory

In this beginner-level course, you will learn about the Data Analytics workflow on Google Cloud and the tools you can use to explore, analyze, and visualize data and share your findings with stakeholders. Using a case study along with hands-on...

Start course

Course Agenda

01	BigQuery for Data Analysts
02	Exploring and Preparing Your Data with BigQuery
03	Cleaning and Transforming Your Data
04	**Ingesting and Storing New BigQuery Datasets**
05	Visualizing Your Insights from BigQuery
06	Developing Scalable Data Transformation Pipelines in BigQuery with Dataform
07	BigQuery Studio

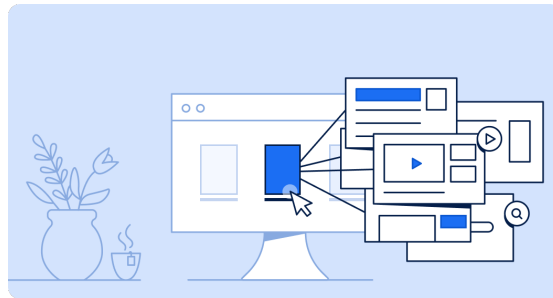(/paths/18/course_templates/865)

03 BigQuery for Data Analysts

book Course

access_time 10 hours 30 minutes

show_chart Intermediate

This course is designed for data analysts who want to learn about using BigQuery for their data analysis needs. Through a combination of videos, labs, and demos, we cover various topics that discuss how to ingest, transform, and query your...

Start course

(/paths/18/course_templates/623)

04 Derive Insights from BigQuery Data

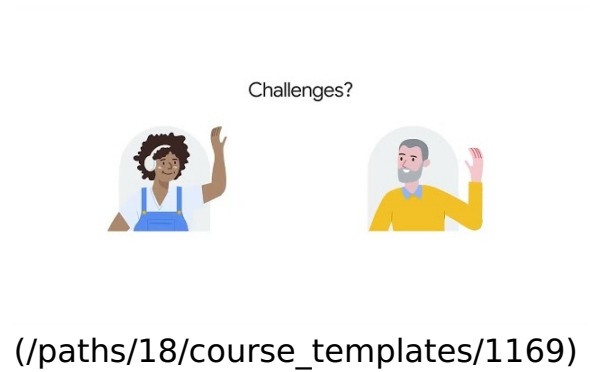book Course

access_time 4 hours 45 minutes

show_chart Introductory

Complete the introductory Derive Insights from BigQuery Data skill badge to demonstrate skills in the following: write SQL queries, query public tables, load sample data into BigQuery, troubleshoot common syntax errors with the query validator in BigQuery, and create reports...
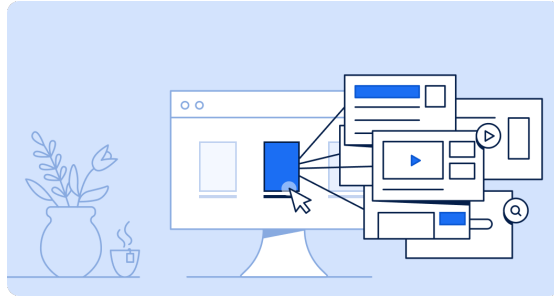
Start course

Challenges?

(/paths/18/course_templates/1169)

05 Boost Productivity with Gemini in BigQuery

book Course
access_time 4 hours
show_chart Introductory

This course explores Gemini in BigQuery, a suite of AI-driven features to assist data-to-AI workflow. These features include data exploration and preparation, code generation and troubleshooting, and workflow discovery and visualization. Through conceptual explanations, a practical use case, and hands-on...

Start course

(/paths/18/course_templates/626)

06 Create ML Models with BigQuery ML

book Course
access_time 1 hour 45 minutes
show_chart Intermediate

Complete the intermediate Create ML Models with BigQuery ML skill badge to demonstrate skills in creating and evaluating machine learning models with BigQuery ML to make data predictions.

Start course

What is the right **tool** to solve the problem?

Diane
Data analyst

Tate
Data scientist

(/paths/18/course_templates/1133)

07 Work with Gemini Models in BigQuery

book Course
access_time 3 hours
show_chart Intermediate

This course demonstrates how to use AI/ML models for generative AI tasks in BigQuery. Through a practical use case involving customer relationship management, you learn the workflow of solving a business problem with Gemini models. To facilitate comprehension, the course...

Start course

08 Introduction to Looker

book Course
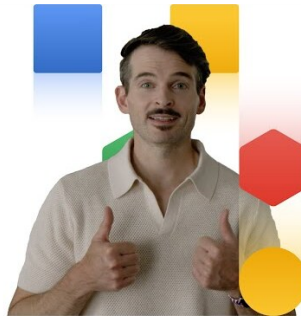access_time 2 hours 30 minutes
show_chart Introductory

In this introductory course, you'll learn how Looker can help you explore, analyze, and visualize your data to drive better decisions. Through a combination of video lectures and demos, you'll discover how to connect to various data sources, build interactive...

Start course

09 Prepare Data for Looker Dashboards and Reports

book Course

access_time 4 hours 45 minutes

show_chart Introductory

Complete the introductory Prepare Data for Looker Dashboards and Reports skill badge to demonstrate skills in the following: filtering, sorting, and pivoting data; merging results from different Looker Explores; and using functions and operators to build Looker dashboards and reports...

Start course

(/paths/18/course_templates/323)
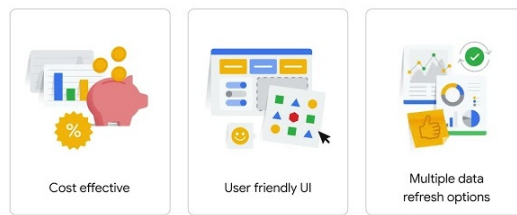
10 Analyzing and Visualizing Data in Looker

book Course
access_time 5 hours 45 minutes
show_chart Introductory

In this course, you learn how to do the kind of data exploration and analysis in Looker that would formerly be done primarily by SQL developers or analysts. Upon completion of this course, you will be able to leverage Looker's...
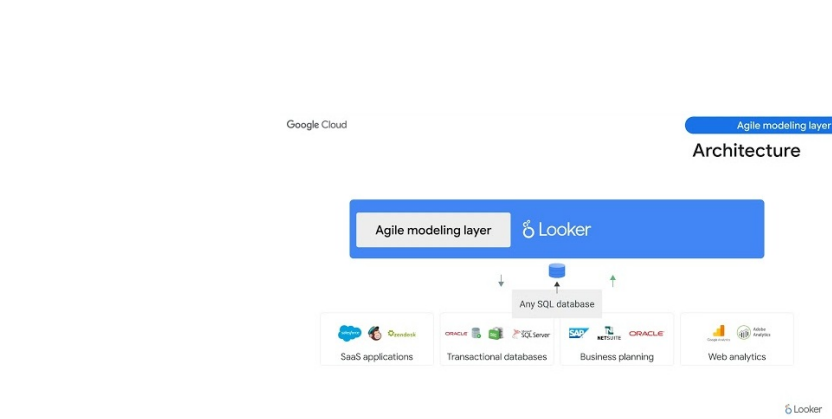
Start course

(/paths/18/course_templates/1379)

11 Looker Studio Essentials

book Course
access_time 4 hours
show_chart Introductory

This course provides an introduction to Looker Studio's powerful features for data visualization and reporting. Learn to transform raw data into insightful reports by mastering various visualization options, connecting to diverse data sources, and implementing interactive controls such as filters....

Start course

(/paths/18/course_templates/327)

12 Developing Data Models with LookML

book Course
access_time 7 hours
show_chart Intermediate

This course empowers you to develop scalable, performant LookML (Looker Modeling Language) models that provide your business users with the standardized, ready-to-use data that they need to answer their questions. Upon completing this course, you will be able to start...

Start course

13 Manage Data Models in Looker

book Course
access_time 7 hours
show_chart Intermediate

Complete the intermediate Manage Data Models in Looker skill badge to demonstrate skills in the following: maintaining LookML project health; utilizing SQL runner for data validation; employing LookML best practices; optimizing queries and reports for performance; and implementing persistent derived...

Start course