

# Welcome

Google Cloud Platform Fundamentals: Big Data and Machine Learning

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Version #1.1



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# Logistics



Parking



Facilities



Food

<https://pixabay.com/en/interior-design-tables-chairs-2591368/> (cc0)  
<https://pixabay.com/en/beetle-car-vintage-car-antique-old-2754256/> (cc0)  
<https://pixabay.com/en/food-prawn-asian-715539/> (cc0)

Being engaged will help you get the most out of the course



**Silence your  
phone**



**Don't record  
this class**



**Ask  
questions**

### Notes:

In a virtual class (Hangouts on Air), use the Q&A feature to ask questions. The instructor will *\*verbally\** answer those questions.

The course begins with a quick overview of Google Cloud, then provides a deep overview on its data processing capabilities



## Notes:

### 1. Introduction

Overview of GCP as a whole, but with emphasis on the data-handling aspects of the platform

- GCP, GCP Big Data
- Usage scenarios
- Create an account on GCP

### 2. Foundation of GCP

Compute and Storage with a focus on their value in data ingest, storage, and federated analysis

- Compute Engine
- Cloud Storage
- Start GCE instance
- Upload data to GCS

### 3. Data analytics on the Cloud

Common use cases that Google manages for you and for which there is an easy migration path to the Cloud

- Cloud SQL
- Dataproc
- Import data into and query Cloud SQL
- Machine Learning with Dataproc

In the morning, we will complete Modules 1 and 2 and get halfway through Module 3.

#### 4a. Scaling data analysis

Change how you compute, not just where you compute with GCP

- Datalab
- Datastore, Big Table
- BigQuery

#### 5. TensorFlow

Change how you compute, not just where you compute with GCP

- TensorFlow
- Datalab instance
- BigQuery
- Demand forecasting with ML

#### 6. Data processing architectures

Scaleable, reliable data processing on GCP

- Pub/Sub
- Dataflow

#### 7. Summary

Course summary

- Resources

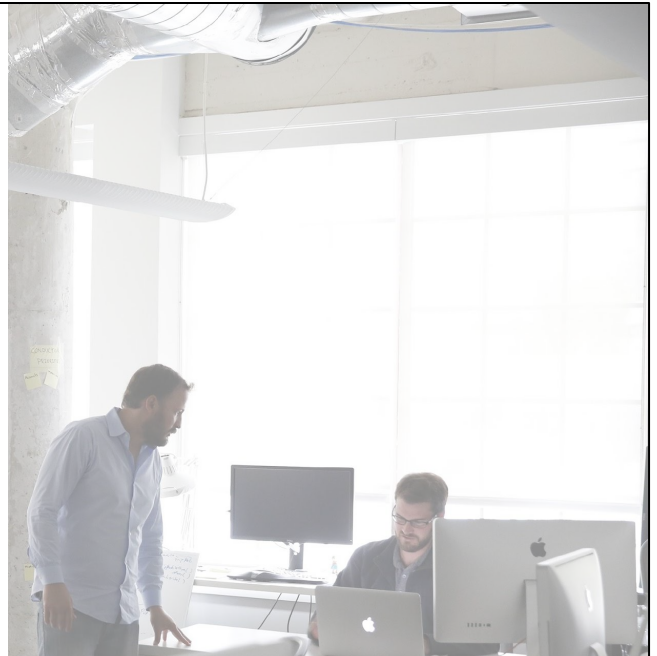
Please feel free to use the appendixes for self-study.

In the morning, we will get halfway through Module 3.

Please feel free to use the appendixes for self-study.

## Meet the instructor

- Your instructor
  - Background
  - Course goals
- You
  - Name
  - Organization
  - Job role
  - Course goals





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