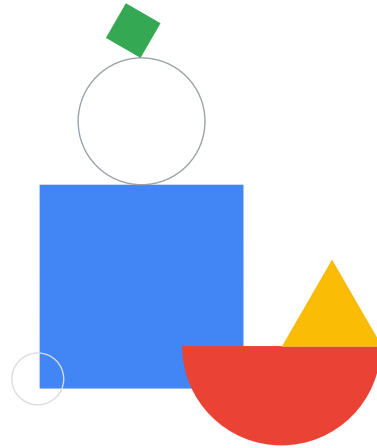


Smart Analytics, Machine Learning and AI on Google Cloud

Course Summary



Course summary

- AI's impact on industry is huge.
- Predictive modeling takes data-driven decision making to a new level.
- The typical data science workflow.
- Notebooks are ideal for prototyping machine learning pipelines and models.
- Notebooks integrate nicely with BigQuery and other Google Cloud services.
- Use BigQuery's analytic window functions for advanced analysis.
- BigQuery has built in GIS functionality.
- Use BigQuery's WITH clause to help modularize your queries.
- There are many ways to optimize your query performance.

Course summary

- Use ML on Google Cloud using either
 - Vertex AI (your model, your data)
 - AutoML (our models, your data)
 - Perception API (our models, our data)
- Use Kubeflow to deploy end-to-end ML pipelines.
- Don't reinvent the wheel for your ML pipeline! Leverage pipelines on AI Hub.
- You can train and evaluate machine learning models directly in BigQuery.
- AutoML can be used to create powerful ML models without any coding
- Use AutoML Vision when you have image data.
- Use AutoML Natural Language when you have text data.
- Use AutoML Tables when you have structured data.

Data Engineering learning path

- 1 Modernizing Data Lakes and Data Warehouses with Google Cloud
- 2 Building Batch Data Pipelines on Google Cloud
- 3 Building Resilient Streaming Analytics Systems on Google Cloud
- 4 Smart Analytics, Machine Learning and AI on Google Cloud

Congratulations on completing **Smart Analytics, Machine Learning and AI on Google Cloud**, the fourth and final course of the Data Engineering Learning Path.

