

Google Cloud BigQuery ML Demand Forecasting

WHO IS IT FOR?

Retailers | Utility | Telecom |
Financial companies | Healthcare

Inventory Management : Retail Operations Manager

- In charge of managing inventory and ensuring optimal stock levels
- Has pool of sales data making it challenging to discern patterns and make decisions
- Aiming to strike the perfect balance between supply and demand

Spot Product Trends : Marketing Manager

- In charge of desinging the future marketing strategy and promotion
- Who has hard time to integrate all the data sources together
- Easily combine with google trends keywords and google analytics tool to spot the recent market trends

HOW BIGQUERY ML CAN HELP YOU

TIME SERIES FORECASTING



Predictive Forecasting:

- customer demand
- financial metrics
- supply chain optimization

REDUCE COSTS



- pay-as-you-go structure
- Computing price \$6.25 per TiB
- Storage price \$0.01 per GiB per month
- 26-34% cheaper than competitors

FASTER PERFORMANCE



% of queries that finish in < 10 seconds:

- 47% for BigQuery queries
- 20% for alternative cloud services queries

HOW GOOGLE CLOUD BIGQUERY WORKS

STEP 1



LOAD DATA

CSV, API, DATABASE

STEP 2



BUILD MODEL

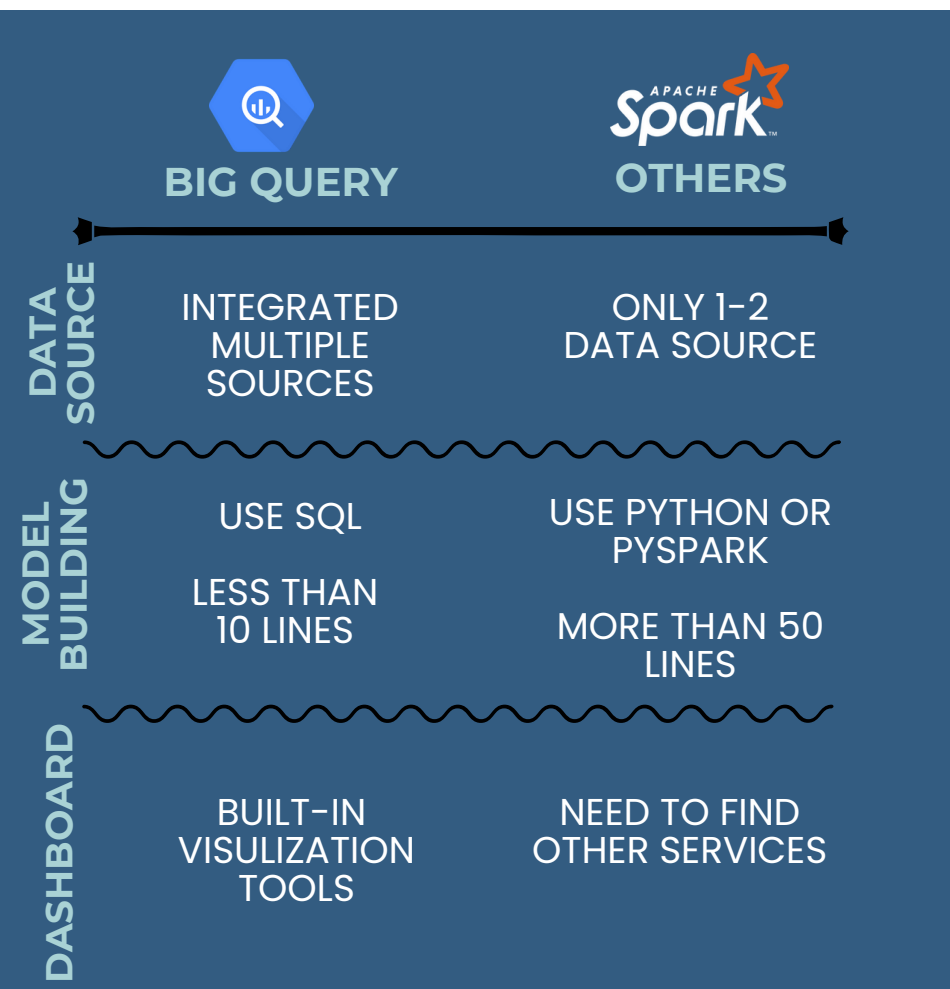
Multiple built-in models

STEP 3



USE LOOKER STUDIO

Built-in dashboard to visualize



BigQuery ML Powered By 8+ Models

- Linear Regression
- Logistic Regression
- K-Mean Clustering
- PCA
- Ensembled Models
- Deep Neural Networks

CONTACT US - TEAM 6

@ rao00045@umn.edu

@ chaud304@umn.edu

@ rajva003@umn.edu

@ chen8486@umn.edu

@ liu02466@umn.edu



SCAN ME