Week -2

**AWS -(Amazon) s3** , Azure , Wordpress etc ..

**Google Cloud** (G) - Tensorflow (framework –ML , AI )

AI , ML services this GCP provides: 90 days free tier

1. Vertext AI
2. AutoML
3. Cloud AI Api

GC - Dashboard : (Storage , Compute engine , Google Colab , Database , CPU, GPU , TPU )

**Google big query : (data analyst , ds , de , be)**

-> Fully managed (end to end support from GCP )

-> Eg : Meta (**Whatsapp**) (Datacenter) → Increase their customer reach –(**strategy** )

1.Data Analyst → view → Meta (**Whatsapp**) (Datacenter) → **Google Bigquery**

**Big Query -** column way storage , using sql (train and deploy ml model , g services , Integration tools (Power BI , tableau , data studio , looker ) )

**Functions of BQ:**

1. Storage layer - Structured , columns , optimization (Normalizations)
2. Query Processing Layer - Parallel processing
3. ML with Big Query - Train model using sql

Real time big query 👍

**1.Dataset Configuration**

1.Add dataset

2.Use the dataset -> processing (prep , cleaning , visulaization)

**Creating your own data:**

1.Repo → Dataset (Name , Location as US )--> Create a table

**Creating Prebuilt data:**

2. Repo -> Inbuilt db → Configure and use

1. **Using the Bigquery ML for Machine Learning/ DS**
2. Supervised learning model
3. Train
4. test/ predict
5. Evaluate
6. Optimization

End to end ds