

PROJECT INTRODUCTION (MLOPS PROJECT - 1)

HOTEL RESERVATIONS PREDICTION

Can you predict if the customer is going to honor the reservation or cancel it ?

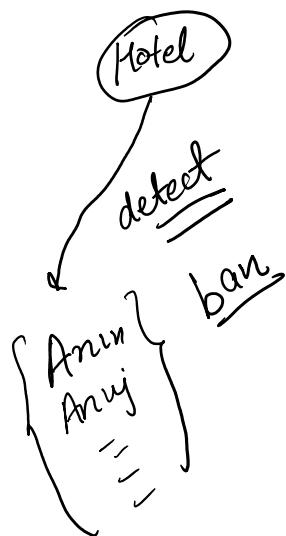


(Machine Learning Project)

USE CASE

08 January 2025 18:47

- ① Revenue Management
- ② Targeted Marketing
- ③ Fraud Detection



DATASET USED



AHSAN RAZA - UPDATED 2 YEARS AGO

▲ 595

New Notebook

Download



Hotel Reservations Dataset

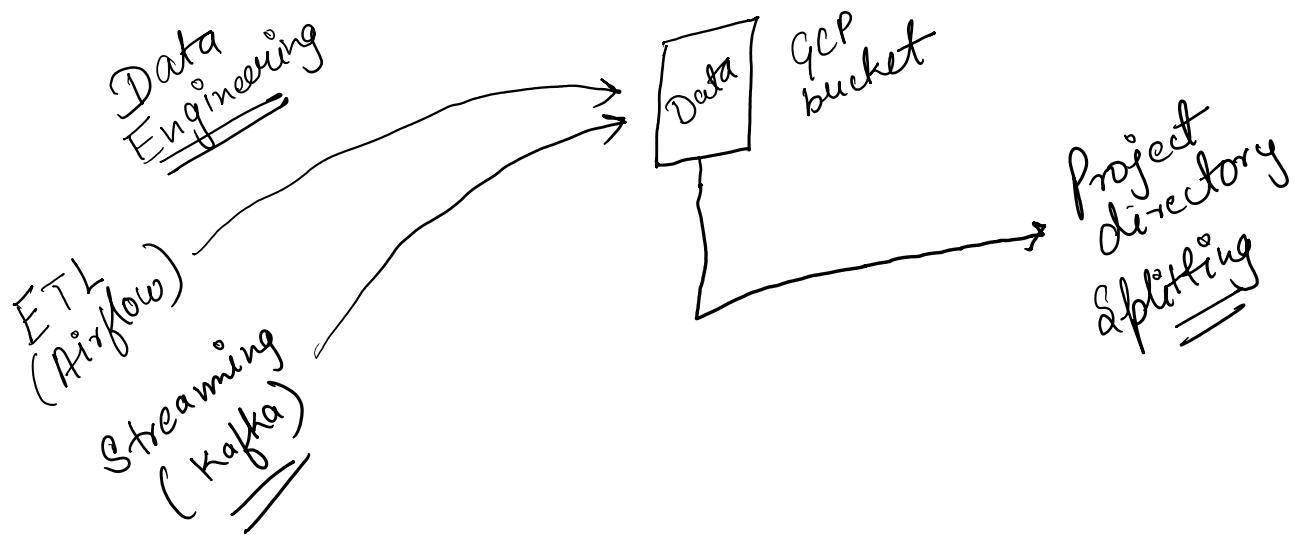
Can you predict if customer is going to cancel the reservation ?

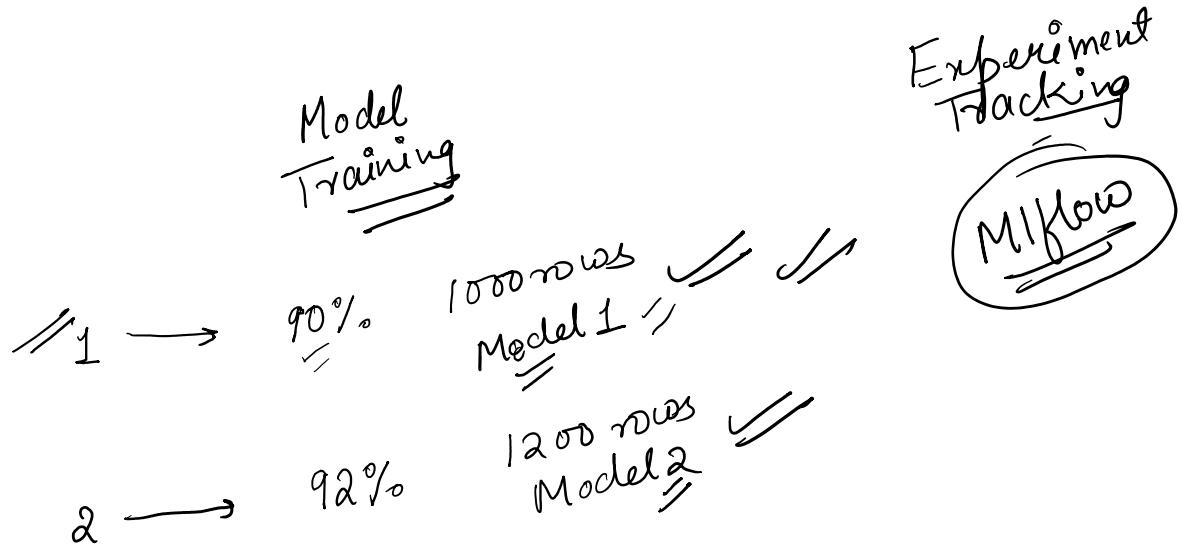


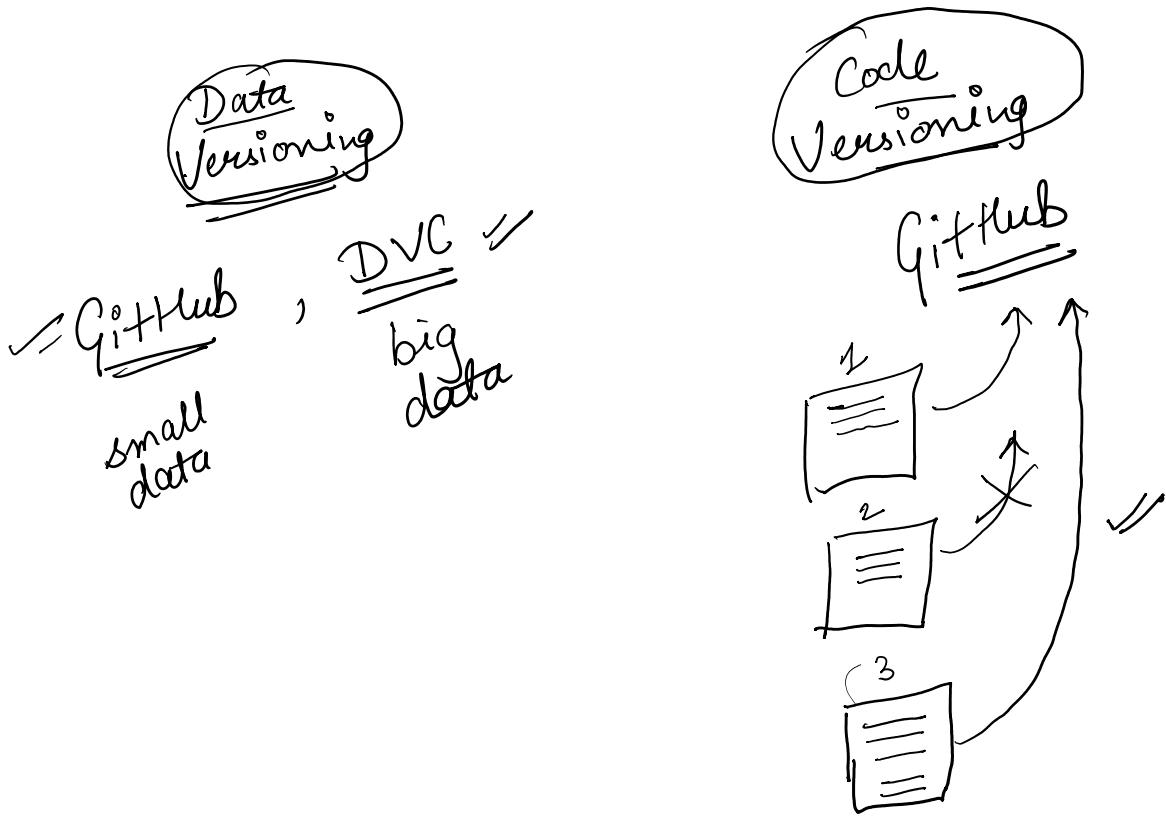
[Link to Dataset is in Description](#)

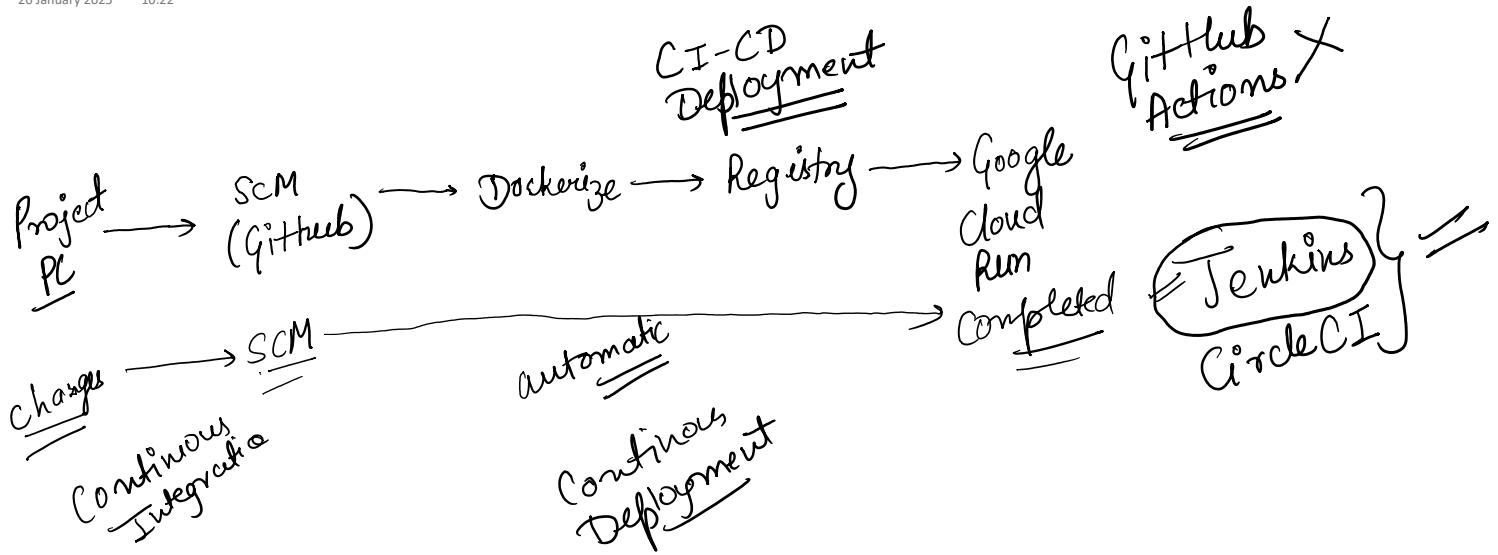
WORKFLOW OF MLOPS PROJECT - 1











DATABASE SETUP

① GCP → Google Cloud Platform
Database / Storage
Virtual Machine
Servers

② GCP Buckets.
→ Storage service
→ Group of folder & files

PROJECT SETUP

09 January 2025 21:38

- ① Create a Venv

python -3.8

Project 1
pandas ver 1.
python 3.11

Project 2
pandas ver 2.

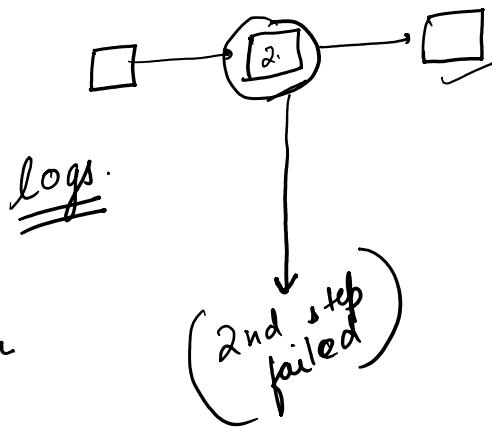
- ② Requirements → =

- ③ setup.py → project management

pip install pandas

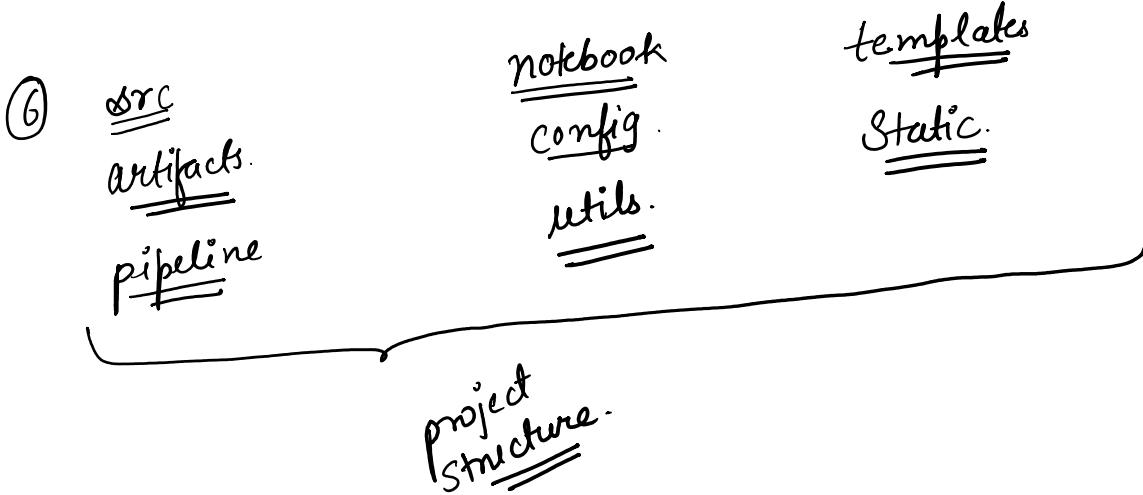
ML App

- ④ logger



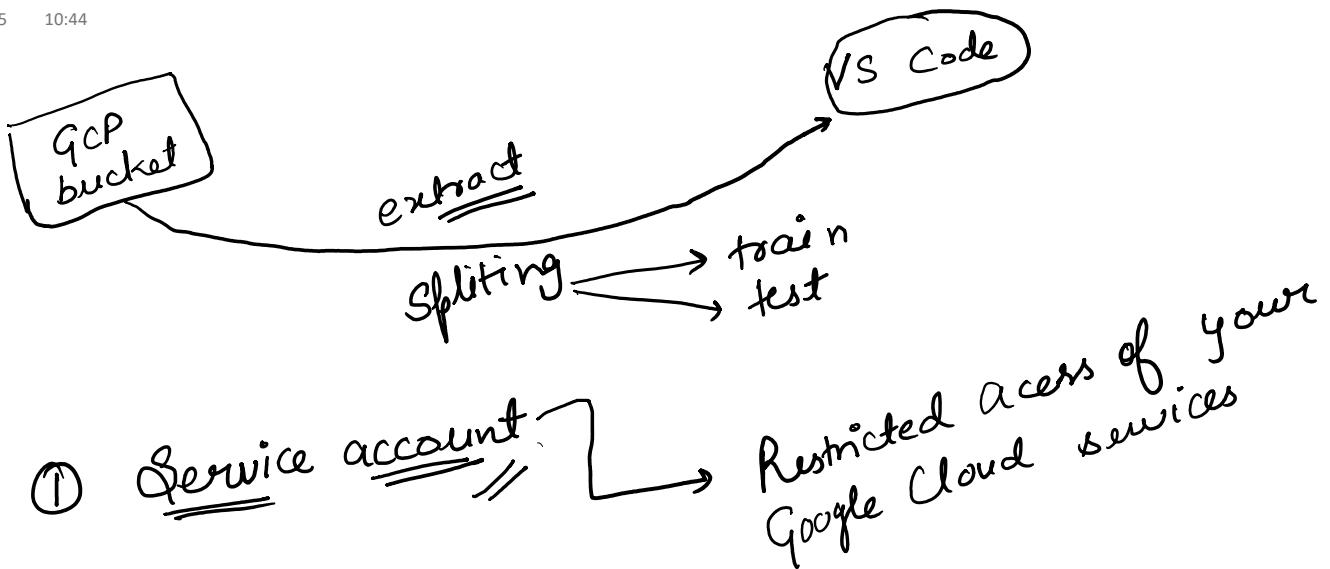
1st step completed
2nd -
final -

- ⑤ Custom exception



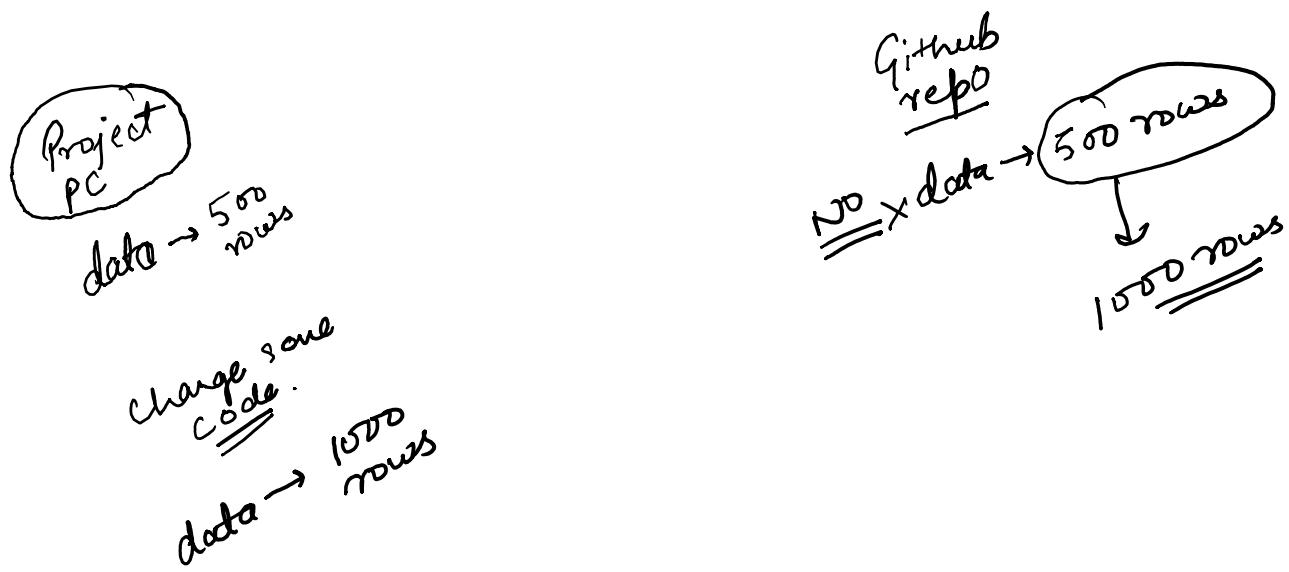
DATA INGESTION

10 January 2025 10:44



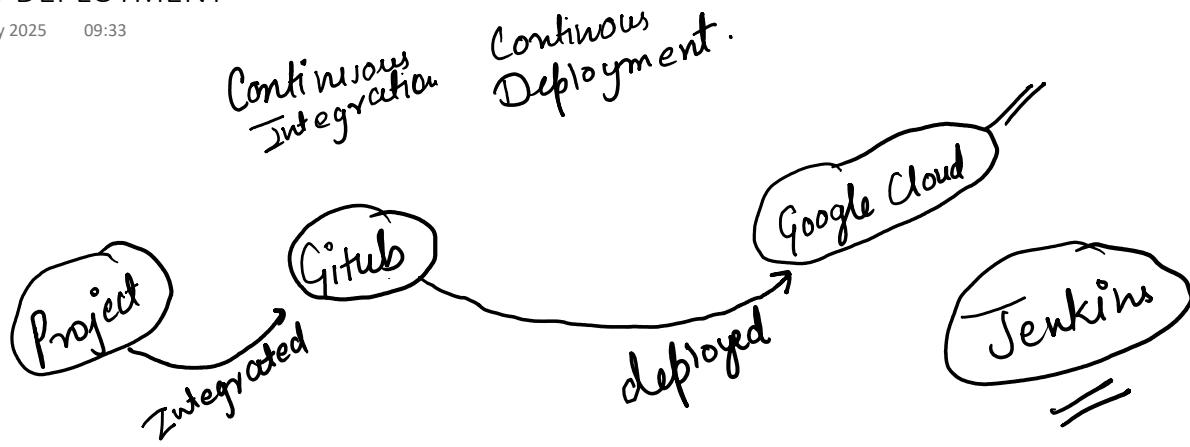
DATA VERSIONING

11 January 2025 16:16



CI-CD DEPLOYMENT

12 January 2025 09:33



- ① Setup Jenkins Container
- ② Github Integration
- ③ Dockerization of Project w/ Dockerfile
- ④ Create a venv in your Jenkins
- ⑤ Build Docker Image of your Project → Push to GCR
Docker in Docker
Google Cloud Registry
- ⑥ Extract image from GCR → Push to Google Cloud Run
App is deployed
Done . . . =

