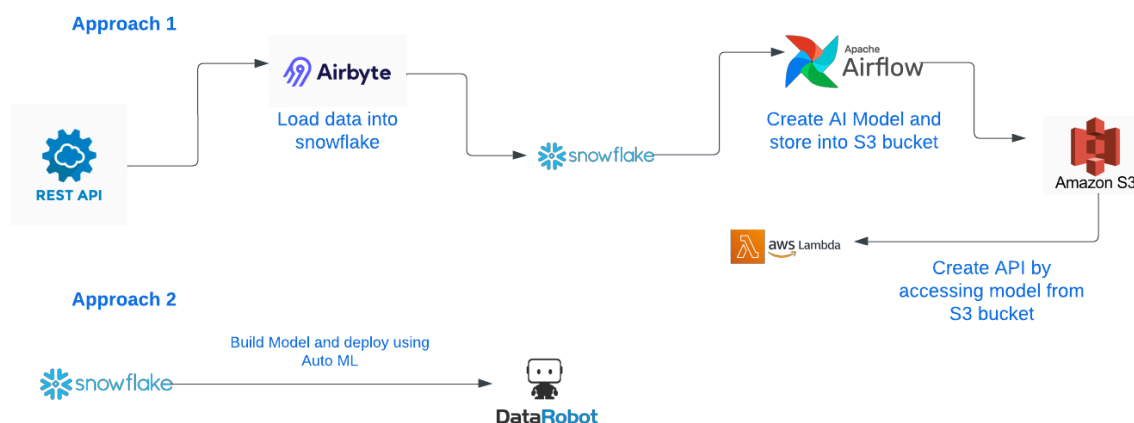


## Demo Project:

### Hospital Readmission prediction

Dataset: <https://www.kaggle.com/code/iabhishekoofficial/prediction-on-hospital-readmission>

### Project Architecture



### ELT Process Performed in the Demo:

Step 1: Download data csv file from internet

Step 2: Convert CSV into JSON using python code

Step 3: Create Mock API (<https://mocki.io/fake-json-api>)

Step 4: Create Trial account in AirByte (<https://cloud.airbyte.com/signup>)

Step 5: Create Trial account in Snowflake from here (<https://signup.snowflake.com/>)

1. Go to Snowflake and create Database named: demo\_ai101

Step 6: Create ELT Pipeline into Airbyte (**Extract and Transform**)

1. Setup Source

- a. Select -> File (CSV, JSON, Excel, Feather, Parquet)
- b. File format: JSON
- c. Storage Provide: HTTPS: Public Web
- d. API URL

2. Setup Destination

- a. Name: Snowflake
- b. Host: {accountname}.{aws\_location}.aws.snowflakecomputing.com  
Eg: fd00396.ap-south-1.aws.snowflakecomputing.com
- c. Role: ACCOUNTADMIN
- d. Warehouse: COMPUTE\_WH
- e. Database: demo\_ai101
- f. Default Schema: public
- g. Username: piyushbytepx
- h. Authorization Type: Username and Password

- i. Password: xxxx
- 3. Setup Schedule
- 4. Run the Pipeline
- 5. Validate data into Snowflake
  - a. Tables created by Airbyte
  - b. Preview the data
  - c. Run the SQL or create view on the table (**Transformation Layer**)

Eg:

```
CREATE VIEW TRANSFORMATION_VIEW AS  
(Select GENDER,RACE, concat(CHANGE, ' TEMP') as  
transformed_column from DEMO_AI101.public."HOSPITAL API" limit  
10);
```

Step 7: Download Tableau Desktop (<https://www.tableau.com/products/desktop/download>)

Step 8: Connect Tableau with Snowflake

Step 9: Try to Analyse data using Tableau

Step 10: Create a basic dashboard and publish on Tableau Public