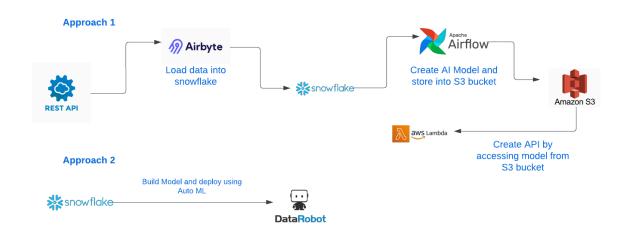
Week 7 Assignment

Customer Churn model dataset

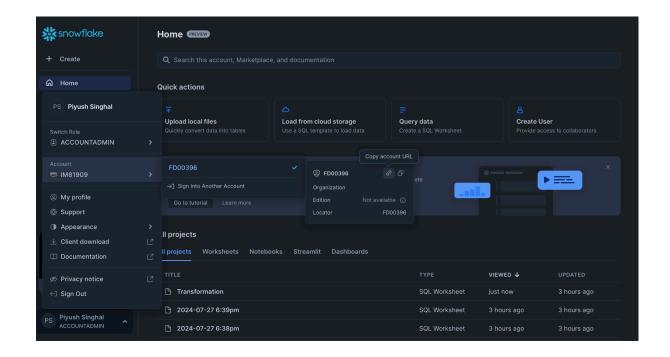
Dataset: https://www.kaggle.com/datasets/kukuroo3/churn-model-data-set-competition-form

Project Architecture



ELT Process Performed in the Demo:

- Step 1: Download data csv file from github
- Step 2: Convert CSV into JSON using python code. Python code is present into github folder
- 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: <Snowflake Username>

h. Authorization Type: Username and Password

i. Password: <Snowflake Password>

- 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

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