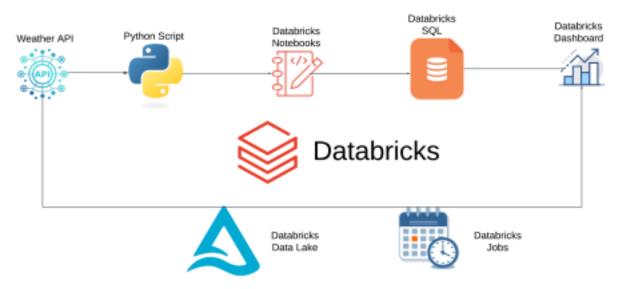
Workflow



Data Ingestion



Data Validation And Error Handling

```
P v v 4 daysago(x10) 7 Python ① [] [] !
# Fetch and display weather data
weather_data = fetch_weather_data()
print(weather_data)

{'city': 'West Bengal', 'temperature': 361.86, 'description': 'broken clouds', 'timestamp': '2824-11-66765:66:28.129831'}
```

Data Storage

```
from pyspark.sql import SparkSession

# Initialize Spark session
spark = SparkSession.builder.getOrCreate()

# Convert weather data to DataFrame
weather_df = spark.createOataFrame([weather_data])

# Save the DataFrame to DataFrame([weather_data])

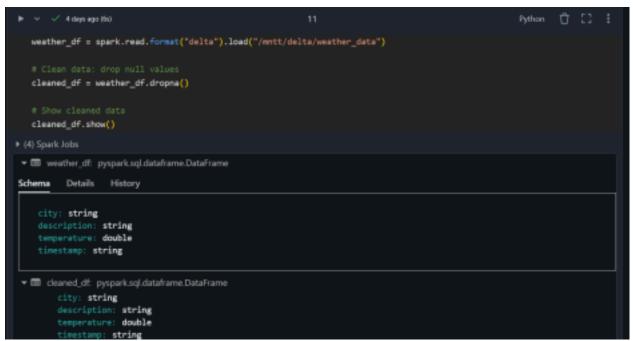
# Save the DataFrame to DataFrame
weather_df.write.forwat("delta").mode("append").save("/mntt/delta/weather_data")

* (3) Spark Jobs

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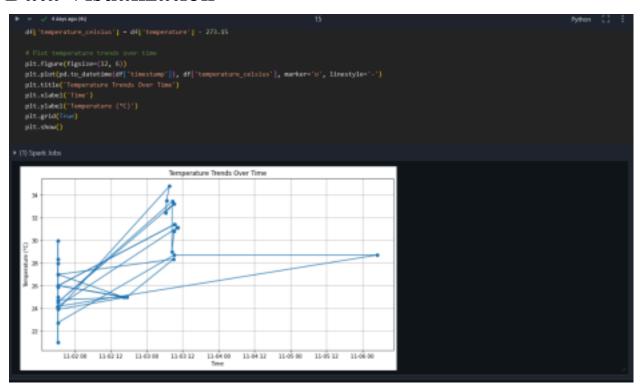
* (4) weather_df. pyspark.sql.dataFrame
city: string
description: string
temperature: double
timestamp: string
```

Data Preprocessing and Cleaning



Data Analysis and Aggregation

Data Visualization



Building Report Using Dashboard



Monitoring Pipeline

Automate Collection