Alternate Fuel Consumption Evaluation Analysis

Group Members

Richa Verma

Md Waquar Ahmad

Nilabh Nishchhal

Gantzer Peter

Aishwariy Baheti

Problem Statement

For this Case Study, we utilized the dataset published by the Transportation Departments of both the United States and Canada. The dataset comprises millions of observations and encompasses more than 30 different variables. Our organization, SOAG, is dedicated to the production and supply of low carbon fuels (LCF), including sustainable aviation fuel (SAF), biodiesel, bioethanol, and renewable compressed natural gas (R-CNG). The primary objective of this assignment is to develop a data engineering application aimed at analyzing the usage of alternate fuels. Additionally, we seek to identify the factors that influence customers in selecting their preferred fuels and conduct a vehicle-wise analysis. As a data engineer, our task involves leveraging Azure cloud services to store and load data, ensuring the incorporation of all the features of data lake. By Following a step-by-step approach, you will accomplish these objectives efficiently and effectively.

grp1storageacc_1691160456521 | Overview

Deployment

Search

- Overview
- Inputs
- Outputs
- Template

🗑 Delete   ⊘ Cancel   ⬆ Redeploy   ⬇ Download   ↻ Refresh

✓ **Your deployment is complete**

Deployment name: grp1storageacc_1691160456521
Subscription: RDBF
Resource group: RDBF

Start time: 04/08/2023, 20:17:45
Correlation ID: c6b01878-ed92-4f50-afd4-330a0e53c171

∨ Deployment details

∧ Next steps

Go to resource

Give feedback

⚲ Tell us about your experience with deployment

Cost Management

Get notified to stay within your budget and prevent unexpected charges on your bill.

Set up cost alerts >

Microsoft Defender for Cloud

Secure your apps and infrastructure

Go to Microsoft Defender for Cloud >

Free Microsoft tutorials

Start learning today >

Work with an expert

Azure experts are service provider partners who can help manage your assets on Azure and be your first line of support.

Find an Azure expert >

Microsoft Azure

Search resources, services, and docs (G+/)

user16@ravinsofttech.c...
RAVINSOFTTECH (RAVINSOFTTE...

Home >

Microsoft.Web-FunctionApp-Portal-b37aec31-ad9f | Overview
Deployment

🔍 Search

Overview
Inputs
Outputs
Template

🗑 Delete   ⊘ Cancel   ⬆ Redeploy   ⬇ Download   ⟳ Refresh

✅ **Your deployment is complete**

⚡ Deployment name: Microsoft.Web-FunctionApp-Portal-b37...   Start time: 04/08/2023, 20:22:42
Subscription: RDBF   Correlation ID: 220b19eb-4c1f-4f03-bea3-fe31e695b12
Resource group: RDBF

⌄ Deployment details

⌃ Next steps

Create a function.   Recommended

Manage deployments for your app.   Recommended

Go to resource

Give feedback

🗨 Tell us about your experience with deployment

Cost Management
Get notified to stay within your budget and prevent unexpected charges on your bill.

Set up cost alerts >

Microsoft Defender for Cloud
Secure your apps and infrastructure

Go to Microsoft Defender for Cloud >

Free Microsoft tutorials
Start learning today >

Work with an expert
Azure experts are service provider partners who can help manage your assets on Azure and be your first line of support.

Find an Azure expert >

InPrivate

</> grp1blobtrigger | Code + Test ...
Function

Save | Discard | Refresh | Test/Run | Upload

⚠ Adding third party dependencies in the Azure portal is currently not supported for Linux Consumption Function Apps. Click here to setup local environment. Learn more

grp1alert \ grp1blobtrigger \ [__init__.py ▾]

```python
1   import logging
2
3   import azure.functions as func
4
5
6   def main(myblob: func.InputStream):
7       logging.info(f"Python blob trigger function processed blob \n"
8                    f"Name: {myblob.name}\n"
9                    f"Blob Size: {myblob.length} bytes")
10      if myblob.length >10000000 :
11          logging.info(f"Storage Exceeded.")
```

∨ Logs | ▽ Log Level ∨ | ☐ Stop | ⧉ Copy | ✕ Clear | ↗ Maximize | ♡ Leave Feedback

Connected! You are now viewing logs of Function runs in the current Code + Test panel. To see all the logs for this Function, please go to 'Monitor' from the Function menu.

Navigation Sidebar
- Overview
- **Developer**
- Code + Test
- Integration
- Monitor
- Function Keys