Oracle VM VirtualBox Manager

File   Machine   Help

Tools

Ubuntu
Powered Off

ubuntu-vm1_default_1671267270728_34526
Powered Off

ubuntu-vm2_default_1671268371805_68534
Powered Off

New   Add   Settings   Discard   Start

General
Name: Ubuntu
Operating System: Ubuntu (64-bit)

System
Base Memory: 4296 MB
Processors: 2
Boot Order: Hard Disk, Optical, Floppy
Acceleration: Nested Paging, KVM Paravirtualization

Preview

Ubuntu

Display
Video Memory: 16 MB
Graphics Controller: VMSVGA
Remote Desktop Server: Disabled
Recording: Disabled

Storage
Controller: IDE
  IDE Secondary Device 0:   [Optical Drive] VBoxGuestAdditions.iso (50.52 MB)
Controller: SATA
  SATA Port 0:   Ubuntu.vdi (Normal, 25.00 GB)

Audio
Host Driver: Default
Controller: ICH AC97

Network
Adapter 1:   Intel PRO/1000 MT Desktop (NAT)

USB
USB Controller: OHCI, EHCI
Device Filters: 0 (0 active)

Shared folders
None

Description
None

Activate Windows
Go to Settings to activate Windows.

Activities   Visual Studio Code   Feb 25 21:19

app.py - Week 11 Assignment - Visual Studio Code

File   Edit   Selection   View   Go   Run   Terminal   Help

EXPLORER

WEEK 11 ASSIGNMENT
  Microservices
    code_model_training
      train.py
    data
      breast_cancer.csv
    model
      model_binary.dat.gz
    ms
      __init__.py
      functions.py
    tests
      example_calls.txt
    app.py
    README.md
    requirements.txt

Microservices > app.py

```python
# Local imports
import datetime

# Third part imports
from flask import request
import pandas as pd

from ms import app
from ms.functions import get_model_response


model_name = "Breast Cancer Wisconsin (Diagnostic)"
model_file = 'model_binary.dat.gz'
version = "v1.0.0"


@app.route('/info', methods=['GET'])
def info():
    """Return model information, version, how to call"""
    result = {}

    result["name"] = model_name
    result["version"] = version

    return result


@app.route('/health', methods=['GET'])
def health():
    """Return service health"""
    return 'ok'
```

Do you want to install the recommended extensions for Python?

Install   Show Recommendations

OUTLINE
TIMELINE

Ln 1, Col 1   Spaces: 4   UTF-8   CRLF   Python

```
python3 -m venv venv

source venv/bin/activate
```

```
python code_model_training/train.py
```

```
# POST method predict
curl -d '[{"radius_mean": 17.99, "texture_mean": 10.38, "perimeter_mean": 122.8, "area_mean":
1001.0, "smoothness_mean": 0.1184, "compactness_mean": 0.2776, "concavity_mean": 0.3001,
"concave points_mean": 0.1471, "symmetry_mean": 0.2419, "fractal_dimension_mean": 0.07871,
"radius_se": 1.095, "texture_se": 0.9053, "perimeter_se": 8.589, "area_se": 153.4,
"smoothness_se": 0.006399, "compactness_se": 0.04904, "concavity_se": 0.05373, "concave
points_se": 0.01587, "symmetry_se": 0.03003, "fractal_dimension_se": 0.006193,
"radius_worst": 25.38, "texture_worst": 17.33, "perimeter_worst": 184.6, "area_worst":
2019.0, "smoothness_worst": 0.1622, "compactness_worst": 0.6656, "concavity_worst": 0.7119,
"concave points_worst": 0.2654, "symmetry_worst": 0.4601, "fractal_dimension_worst":
0.1189}]' \
    -H "Content-Type: application/json" \
    -X POST http://0.0.0.0:5000/predict

# GET method info
curl -X GET http://localhost:5000/info

# GET method health
curl -X GET http://localhost:5000/health
```