Learn ML flow in details.

End-to-end Chest-Cancer-Classification-Using ML flow & DVC

1. Introduction and GitHub Repository Setup
2. Project Template Creation
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11. Docker
12. Final CI/CD deployment on AWS and Azure

Prerequisite

1. Python programming (OOPs Concepts Required)
2. Deep learning – Object Classification Basic and tensorflow 2.xAPI
3. AWS and Azure Account
4. Your dedication

What is Adenocarcinoma?

Adenocarcinoma is a type of cancer that starts in mucus-producing(glandular) cells. Many organs have these types of cells and adenocarcinoma can develop in any of these organs.

Sklearn link:

Run on anaconda environment: python MLflow\_train.py #after running it, mlruns folder is created and then will get an experiment with the unique ID.

Inside mlruns folder, we can see meta.yaml file:  
  
 artifact\_uri: file:///D:/Classfication\_Model\_Using\_MLflow/mlruns/0/8388c0cfb99b4f61baecf94e6e67f97f/artifacts

end\_time: 1700899911873

entry\_point\_name: ''

experiment\_id: '0'

lifecycle\_stage: active

run\_id: 8388c0cfb99b4f61baecf94e6e67f97f

run\_name: redolent-ox-402

run\_uuid: 8388c0cfb99b4f61baecf94e6e67f97f

source\_name: ''

source\_type: 4

source\_version: ''

start\_time: 1700899907998

status: 3

tags: []

user\_id: jnote

Inside conda.yaml file shows which packages are using in this project.

channels:

- conda-forge

dependencies:

- python=3.8.18

- pip<=23.3.1

- pip:

  - mlflow<3,>=2.2

  - cloudpickle==2.2.1

  - numpy==1.24.4

  - scikit-learn==1.3.2

  - scipy==1.10.1

name: mlflow-env

ML Model configuration:

artifact\_path: model

flavors:

  python\_function:

    env:

      conda: conda.yaml

      virtualenv: python\_env.yaml

    loader\_module: mlflow.sklearn

    model\_path: model.pkl

    predict\_fn: predict

    python\_version: 3.8.18

  sklearn:

    code: null

    pickled\_model: model.pkl

    serialization\_format: cloudpickle

    sklearn\_version: 1.3.2

mlflow\_version: 2.2.2

model\_uuid: af2bfbf221704c389ee1354222b973bb

run\_id: 8388c0cfb99b4f61baecf94e6e67f97f

utc\_time\_created: '2023-11-25 08:11:48.092594'

To display running times, we can go through ML flow ui.

How to set up ML Flow in remote server (dagshub.com)? #What is dagshub?

Dagshub is especially used for running a remote server.

To run in ML flow ui: mlflow ui