Week2 Assignment submission -- Jophy Joseph – June 12, 2022

To use mlflow for logging and querying machine learning experiments. – Titanic shipwreck data

Step1: pip install mlflow (I had already installed before)

A picture containing text

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Step2: starting mlflow ui

Text

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Step 3: Verifying the mlflow ui localhost link

Graphical user interface, text, application, email

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Step 4: Creating and Deploying the models

Model 1 -- RandomForestClassifier (default hyperparameters)

Model 2 -- RandomForestClassifier (max\_depth=5, n\_estimators=200, warm\_start=True, min\_samples\_split=4)

Model 3 - DecisionTreeClassifier()

Model 4 - DecisionTreeClassifier(criterion='entropy',max\_depth=3,max\_leaf\_nodes=2)

Snippets of .ipynb file for two model runs:

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Graphical user interface, text, application

Description automatically generated

Mlflow ui main page

A screenshot of a computer

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Ml flow main page ( only show differences)

A screenshot of a computer

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Comparing Model 1 and Model2

Visual:

Chart, line chart

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Run Details and Params:

Graphical user interface, text

Description automatically generated

Table

Description automatically generated

Metrics :

Graphical user interface, text, application, Teams

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