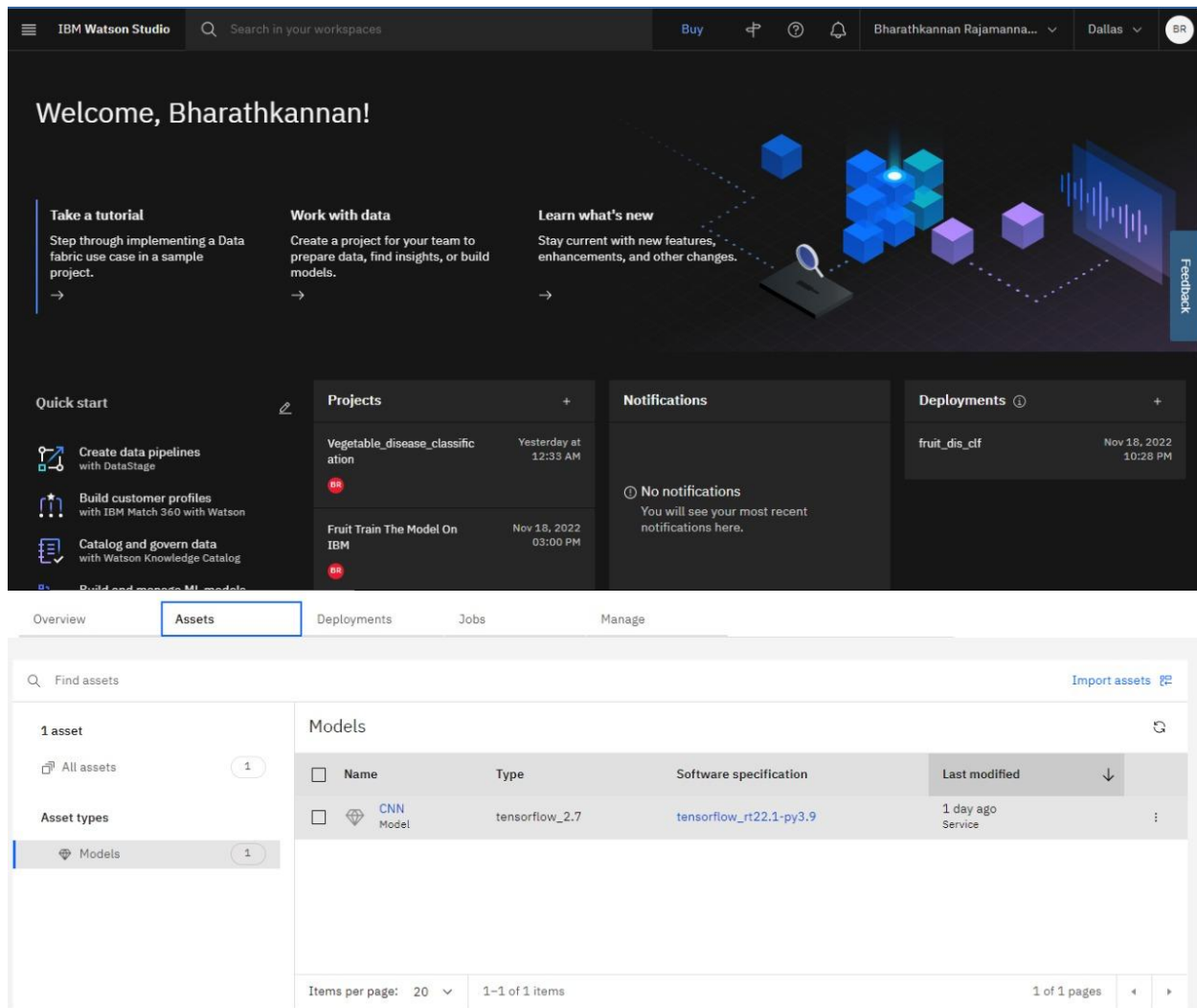


Fertilizer Recommendation System Using Disease Prediction

Team ID: PNT2022TMID38633

Cloud Deployment Proofs :



The screenshot displays the IBM Watson Studio interface. The top navigation bar includes the IBM Watson Studio logo, a search bar, and user information. The main dashboard area shows a welcome message and several quick start options. Below this, there are sections for Projects, Notifications, and Deployments. The 'Assets' tab is selected, showing a table of models.

Quick start

- Create data pipelines with DataStage
- Build customer profiles with IBM Match 360 with Watson
- Catalog and govern data with Watson Knowledge Catalog
- Build and manage ML models

Projects

Project Name	Last Modified
Vegetable_disease_classification	Yesterday at 12:33 AM
Fruit Train The Model On IBM	Nov 18, 2022 03:00 PM

Notifications

No notifications

Deployments

Deployment Name	Last Modified
fruit_dis_clf	Nov 18, 2022 10:28 PM

Assets

Find assets

1 asset

All assets (1)

Asset types

- Models (1)

Models

Name	Type	Software specification	Last modified
CNN Model	tensorflow_2.7	tensorflow_rt22.1-py3.9	1 day ago Service

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IBM Watson Studio

Search in your workspaces

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Projects / Fruit Train The Model On IBM / Fruit_Disease_predction

In [1]:

pwd

Out[1]:

'/home/wsuser/work'

In [100]:

```
!pip install keras==2.7.0
!pip install tensorflow==2.5.0

Collecting keras==2.7.0
  Downloading keras-2.7.0-py2.py3-none-any.whl (1.3 MB)
    |#####| 1.3 MB 3.2 MB/s eta 0:00:01
Installing collected packages: keras
  Attempting uninstall: keras
    Found existing installation: Keras 2.2.4
    Uninstalling Keras-2.2.4:
      Successfully uninstalled Keras-2.2.4
  Successfully installed keras-2.7.0
Collecting tensorflow==2.5.0
  Downloading tensorflow-2.5.0-cp39-cp39-manylinux2010_x86_64.whl (454.4 MB)
    |#####| 454.4 MB 29 kB/s s eta 0:00:01 ||
| 7.0 MB 11.6 MB/s eta 0:00:39 MB 11.6 MB/s eta 0:00:39 MB 266.0 MB 60.6 MB/s eta 0:00:04
Collecting grpcio==1.34.0
  Downloading grpcio-1.34.1-cp39-cp39-manylinux2014_x86_64.whl (4.0 MB)
    |#####| 4.0 MB 51.2 MB/s eta 0:00:01
Collecting tensorflow-estimator<2.6.0,>=2.5.0rc0
  Downloading tensorflow_estimator-2.5.0-py2.py3-none-any.whl (462 kB)
    |#####| 462 kB 50.4 MB/s eta 0:00:01
Requirement already satisfied: wrapt==1.12.1 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from tensorflow==2.5.0) (1.12.1)
Requirement already satisfied: astunparse==1.6.3 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from tensorflow==2.5.0) (1.6.3)
Requirement already satisfied: keras-preprocessing==1.1.2 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from tensorflow==2.5.0) (1.1.2)
Requirement already satisfied: protobuf>=3.9.2 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from tensorflow==2.5.0) (3.19.1)
Collecting flatbuffers==1.12.0
```

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Deployments /

fruit_dis_clf

Overview

Assets

Deployments

Jobs

Manage

Find assets

Import assets

1 asset

All assets 1

Asset types

Models 1

Assets

Name	Last modified	
CNN Model	1 day ago Service	

Items per page: 20 1-1 of 1 items 1 of 1 pages

Drop files here or browse for files to upload.

Stay on the page until upload completes.
Incomplete uploads are cancelled.

IBM Watson Studio

Search in your workspaces

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Projects / Fruit Train The Model On IBM

Launch IDE

Overview

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Notebooks 3

Notebooks

Name	Language	Last modified	
Trained_veg_Model_on_ibm Notebook		2 days ago Modified by you	
Veg_dis_clf Notebook	Python 3.9	2 days ago Modified by you	
Fruit_Disease_prediction Notebook	Python 3.9	2 days ago Modified by you	

Items per page: 20 1-3 of 3 items 1 of 1 pages

Data in this project

Drop data files here or browse for files to upload

Projects / vegetable_diseases_classification / Trained_veg_Model_on_ibm

```

In [1]: pwd

Out[1]: '/home/wsuser/work'

In [8]: !pip install h5py
        !pip install typing-extensions
        !pip install wheel

Requirement already satisfied: h5py in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (3.1.0)
Requirement already satisfied: numpy>=1.19.3 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from h5py) (1.19.5)
Requirement already satisfied: typing-extensions in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (3.7.4.3)
Requirement already satisfied: wheel in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (0.37.0)

In [9]: !pip install keras==2.7.0
        !pip install tensorflow==2.5.0

Requirement already satisfied: keras==2.7.0 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (2.7.0)
Requirement already satisfied: tensorflow==2.5.0 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (2.5.0)
Requirement already satisfied: six==1.15.0 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from tensorflow==2.5.0) (1.15.0)
Requirement already satisfied: flatbuffers==1.12.0 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from tensorflow==2.5.0) (1.12.0)
Requirement already satisfied: absl-py==0.10 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from tensorflow==2.5.0) (0.12.0)
Requirement already satisfied: numpy==1.19.2 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from tensorflow==2.5.0) (1.19.5)
Requirement already satisfied: wrapt==1.12.1 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from tensorflow==2.5.0) (1.12.1)
Requirement already satisfied: astunparse==1.6.3 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from tensorflow==2.5.0) (1.6.3)
Requirement already satisfied: h5py==3.1.0 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from tensorflow==2.5.0) (3.1.0)
Requirement already satisfied: keras-nightly==2.5.0.dev in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from tensorflow==2.5.0) (2.5.0.dev2021032900)
Requirement already satisfied: wheel==0.35 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from tensorflow==2.5.0) (0.37.0)
Requirement already satisfied: tensorboard==2.5 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from tensorflow==2.5.0) (2.7.0)
Requirement already satisfied: keras-preprocessing==1.1.2 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from tensorflow==2.5.0) (1.1.2)
Requirement already satisfied: grpcio==1.34.0 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from tensorflow==2.5.0) (1.34.1)
Requirement already satisfied: termcolor==1.1.0 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from tensorflow==2.5.0) (1.1.0)
Requirement already satisfied: opt-einsum==3.2.0 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from tensorflow==2.5.0) (3.2.0)

```

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Projects / Vegetable_disease_classification

OverviewAssetsJobsManage

Find assets

Import assets

New asset

1 assets

All assets

Asset types

Notebooks1

Name	Last modified
Veg_dis_clf Notebook	2 days ago Modified by you

Items per page: 201-1 of 1 items1 of 1 pages

Data in this project

Drop data files here or browse for files to upload