

PROJECT DEVELOPMENT PHASE

SPRINT-3

Date	10 November 2022
Team ID	PNT2022TMID37576
Project Name	Developing a Flight Delay Model Using Machine Learning

Train The Model On IBM

The screenshot displays the IBM Cloud Watson Studio interface. At the top, the navigation bar includes the IBM Cloud logo, a search bar, and user account information for 'Preethi S's Account'. The main content area is titled 'Watson Studio-gx' and shows it is 'Active'. A 'Launch in IBM Cloud Pak for Data' button is prominently displayed. To the right, a diagram shows the architecture: 'IBM Watson Studio in Cloud Pak for Data' is built on the 'IBM Cloud Pak for Data Unifying platform', which sits on 'IBM Cloud Base cloud infrastructure'. Below this, there are three sections: 'Documentation', 'Learning path', and 'Videos'. The browser's address bar shows a long URL for the registration step. The bottom of the screen shows a Windows taskbar with several open files, including 'Flight Delay Pre...ipynb', 'IBM Cloud estimate.csv', and 'PNT2022TMID494...pdf'.

IBM Cloud Pak for Data

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Preethi S's Account

Dallas

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Projects / Custom Model Deployment

Overview

Assets

Jobs

Manage

Assets

Flight Delay Prediction
3 minutes ago by you

View all

Resource usage

For this month in this project

0.82 CUH

Project history

You created project Custom Model Deployment
Today at 03:53 PM

Readme

Type project notes, reminders, or instructions

Data in this project

Drop data files here or browse for files to upload

Activate Windows

Go to Settings to activate Windows.

Show all

Flight Delay Pre...ipynb

Flight Delay Pre...ipynb

IBM Cloud estimate.csv

PNT2022TMID494...pdf

PNT2022TMID102...pdf

Test cases.pdf

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Overview

Assets

Jobs

Manage

Find assets

Import assets

New asset

2 assets

All assets

Asset types

Data1

Notebooks1

Name	Last modified
Processed_data15-1.csv CSV	Now Modified by you
Flight Delay Prediction Notebook	6 minutes ago Modified by you

Items per page: 201-2 of 2 items1 of 1 pages

Data in this project

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Flight Delay Pre...ipynb

Flight Delay Pre...ipynb

IBM Cloud estimate.csv

PNT2022TMID494...pdf

PNT2022TMID102...pdf

Test cases.pdf

Show all

Flight Delay Prediction - IBM | IBM-Project-11879-1659351 | Service Details - IBM Cloud | IBM Cloud Pak for Data

https://dataplatform.cloud.ibm.com/analytics/notebooks/v2/76dd55e4-d638-45ba-a04e-f3267b36ecf5?projectId=56f5f127-188d-4c03-b527-22781621830e&context=cpdaas

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Projects / Custom Model Deployment / Flight Delay Prediction

File Edit View Insert Cell Kernel Help

Not Trusted | Python 3.9

Format Code

Train the ML Model in IBM

Date -- 10 November 2022 Team Id -- PNT2022TMID37576 Project -- Flight delay prediction using Machine Learning Marks -- 8 marks

```
In [2]: import sys
import numpy as np
import pandas as pd
import seaborn as sns
import pickle
import sklearn
import matplotlib inline
from sklearn.preprocessing import LabelEncoder
from sklearn.preprocessing import OneHotEncoder
from sklearn.model_selection import train_test_split
from sklearn.tree import DecisionTreeClassifier
from sklearn.metrics import accuracy_score
import sklearn.metrics as metrics

In [2]: import os, types
import pandas as pd
from botocore.client import Config
import ibm_boto3

def __iter__(self): return 0
```

https://dataplatform.cloud.ibm.com/analytics/notebooks/v2/76dd55e4-d638-45ba-a04e-f3267b36ecf5?projectId=56f5f127-188d-4c03-b527-22781621830e&context=cpdaas#

Flight Delay Pre...ipynb | Flight Delay Pre...ipynb | IBM Cloud estimate.csv | PNT2022TMID494...pdf | PNT2022TMID102...pdf | Test cases.pdf

Data

Files

Connections

Upload one file at a time. All file types accepted. 5 GB max file size.

Drag and drop files here or upload.

Processed_data15.csv

Insert to code

Activate Windows

Go to Settings to activate Windows.

Show all

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https://dataplatform.cloud.ibm.com/ml-runtime/spaces/bc00e3c3-8daa-4797-9001-27eb33e613d2/assets?context=cpdaas

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Deployments /

Models

Overview | **Assets** | Deployments | Jobs | Manage

Find assets

Import assets

1 asset

All assets 1

Asset types

Data 1

Name	Last modified
Flight Delay Prediction .ipynb application/octet-stream	1 minute ago Preethi S (You)

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.

Activate Windows

Go to Settings to activate Windows.

Show all