

## SPRINT 4

### TRAIN CNN MODEL ON IBM

Date	19 november 2022
Team ID	PNT2022TMID48153
Project Name	Emerging methods for early detection of forest fire

The image displays two screenshots of the IBM Cloud Object Storage (COS) console interface, showing the process of uploading a file to a bucket.

**Top Screenshot:**

- Left Sidebar:** Shows the navigation menu with options like Cloud Object Storage, Storage instances, Buckets, Integrations, Endpoints, Usage details, Service credentials, Connections, and Plan. The 'Buckets' section is currently selected.
- Main Content Area:** Displays the bucket 'emergingmethodsforearlydetectiono-donotdelete...'. The 'Objects' tab is active, showing a list of objects. A file named 'code\_1\_...P68R.ipynb' (172.8 KB, 2022-11-18 3:23 PM) is listed. Below the list is a dashed box with the text 'Drag and drop files (objects) here or click to upload'.
- Top Bar:** Includes the IBM Cloud logo, a search bar, and user information (Fahmidha Basheer's Ac...).

**Bottom Screenshot:**

- Left Sidebar:** Similar to the top screenshot, with 'Buckets' selected.
- Main Content Area:** The same bucket is shown, but the file list now includes 'notebook/cod...il\_P68R.ipynb' (172.8 KB, 2022-11-18 3:23 PM). The 'Upload' button is visible in the top right corner of the object list area.
- Top Bar:** Similar to the top screenshot.

IBM Watson Studio

Search in your workspaces

Buy

Fahmidha Basheer's Accou...

Dallas

FB

Projects / Emerging Methods For Early Dete... / code\_1 (1)

File Edit View Insert Cell Kernel Help

Not Trusted | Python 3.9

In [1]:

from google.colab import drive  
drive.mount('/content/drive')

Drive already mounted at /content/drive; to attempt to forcibly remount, call drive.mount("/content/drive", force\_remount=True).

In [2]:

!pip install tensorflow  
!pip install opencv-python  
!pip install opencv-contrib-python  
import tensorflow as tf  
import numpy as np  
from tensorflow import keras  
import os  
import cv2  
from tensorflow.keras.preprocessing.image import ImageDataGenerator  
from tensorflow.keras.preprocessing import image  
import matplotlib.pyplot as plt

Looking in indexes: https://pypi.org/simple, https://us-python.pkg.dev/colab-wheels/public/simple/  
Requirement already satisfied: tensorflow in /usr/local/lib/python3.7/dist-packages (2.9.2)  
Requirement already satisfied: absl-py>=1.0.0 in /usr/local/lib/python3.7/dist-packages (from tensorflow) (1.3.0)  
Requirement already satisfied: termcolor>=1.1.0 in /usr/local/lib/python3.7/dist-packages (from tensorflow) (2.1.0)

IBM

AI-B7-1A

IBM-434

code 1.jp

Service D

IBM Wat

(280) CN

Inbox (1

My Drive

code 1.jp

cloud.ibm.com/services/data-science-experience/crn%3Av1%3Abluemix%3Apublic%3Adata-science-experience%3Aus-south%3Aa%2F8c59779138f94a1882b...

Gmail

YouTube

Maps

Translate

IBM Cloud

Search resources and products...

Catalog

Manage

Fahmidha Basheer's Ac...

?

Resource list /

Watson Studio-i6

Active

Add tags

Manage

Plan

Watson Studio in Cloud Pak for Data

Watson Studio is one of the core services in Cloud Pak for Data as a Service. Build, deploy and manage AI models, and optimize decisions on IBM Cloud Pak for Data.

Launch in IBM Cloud Pak for Data

IBM Watson Studio in Cloud Pak for Data

IBM Cloud Base cloud infrastructure

IBM Watson Studio is part of IBM Cloud Pak for Data and serves as the data science capability of the data fabric architecture.

Helpful links

Documentation

Learning path

Videos

IBM Watson Studio

Search in your workspaces

Buy

Fahmidha Basheer's Accou...

Dallas

FB

Projects / Emerging Methods For Early Dete... / code\_1 (1)

26%

Instantiating runtime for code\_1 (1)  
The selected runtime has 2 vCPU and 8 GB RAM.  
It consumes 1 capacity unit per hour.