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Build


Explore IBM Cloud with this selection of easy starter tutorials and services.



Build a web app with Watson Speech to Text

Deploy a conversational interface compatible with any application, device, or channel.


Getting started 15 min



Get Started with Watson Studio

Get started with using AI and Cloud Object Storage in 15 minutes.


Popular 2 hr



IBM Watson Knowledge Catalog

Help your data citizens easily find, prepare, understand and use the data they need through an enterprise data catalog & governance platform.


Recommended 2 min



Build a Virtual Private Cloud (VPC)

Upgrade to a paid account to create your own protected space in the IBM Cloud.

Getting started 7 min



App Connect

Instantly connect applications, data, heritage systems and modern technologies, even without a single line of code, with IBM App Connect.

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Connections



Watson Machine Learning in Cloud Pak for Data

Use Watson Machine Learning on Cloud Pak for Data to put AI models to work. Deploy, monitor, and update models to get the insights you need from your data modeling.

Launch in IBM Cloud Pak for Data



IBM Watson Machine Learning in Cloud Pak for Data

IBM Cloud Pak for Data Unifying platform

IBM Cloud Base cloud infrastructure

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

Helpful links

Documentation

Learn about the tools and capabilities you need to run, monitor, and update your AI assets.


Learning path

Check out sample projects, notebooks, and data sets to help you be productive.

Videos

Watch videos to learn about Watson Machine Learning and Cloud Pak for Data as a Service.

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Build customer profiles with IBM Match 360 with Watson customer profiles Catalog and govern data with Watson Knowledge Catalog

Build and manage ML models with Watson Studio

Query data anywhere with Watson Query

What's new

Spark 3.3 replaces Spark 3.2 for Watson Studio and Watson Machine Learning
Nov 17, 2022

Manage settings for data protection rules (Watson Knowledge Catalog)
Nov 10, 2022

Use new functions in the DataStage Transformer stage
Nov 10, 2022

Build and manage ML models with Watson Studio

Watson Studio is a service that you use to build, deploy, and manage AI models and to optimize decisions. Work within a project to build models. Customize how you work by choosing from notebooks, graphical canvases, and no-

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Get started

Provision Watson Studio

Create an instance of Watson Studio from the service catalog.

Provision Watson Machine Learning

Create an instance of Watson Machine Learning from the service catalog.

NOTEBOOK

Use AutoAI and Lale to predict credit risk with...

Learn how to use AutoAI experiments in this notebook by getting a German credit data set and train the model to predict banking credit. Then, compare several trained models for quality and select best one for further refi

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Feedback

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New project

Define details

Name

Real time communication system for specially abled person

Description

We are making use of a convolution neural network to create a model that is trained on different hand gestures. An app is built which uses this model. This app enables deaf and dumb people to convey their information using signs which get converted to human-understandable language and speech is given as output.

Choose project options

☒ Restrict who can be a collaborator ⓘ

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Storage

Cloud Object Storage-tl

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Services catalog /

 Cloud Object Storage

Author: IBM • Date of last update: Jul 6, 2022 • [Docs](#) • [API Docs](#)

CreateAbout

Pricing plan

Displayed prices do not include tax. Monthly prices shown are for country or region: United States

Plan	Features	Pricing
One Rate	<p>One Rate plan offers a flat monthly charge that includes capacity, and built-in allowances for outbound bandwidth and data access. It is best suited for active workloads with large amounts of outbound bandwidth as a percent of their storage capacity.</p> <p>The One-rate plan offers large enterprises and ISVs (with multiple divisions or end-users) a predictable TCO based on one flat rate. The flat rate has built-in allowances for outbound bandwidth and operational requests. These allowances depend on the amount of storage capacity aggregated across multiple instances within a One Rate pricing region. There is no data retrieval charge.</p>	<div>See pricing details</div> <div>✓</div>

Summary

Cloud Object Storage

Region: Global

Plan: One Rate


Service name: Cloud Object Storage-iq

Resource group: Default

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Type Service

Provider IBM

Last updated 11/15/2022

Category AI / Machine Learning

Compliance HIPAA Enabled IAM-enabled Service Endpoint Supported

Location London Dallas Frankfurt Tokyo

Select a location

London (eu-gb)

Select a pricing plan

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Plan	Features	Pricing
Lite	Service instance 20 capacity unit-hours (CUH) included: Capacity Type: <ul style="list-style-type: none">• 1 vCPU and 4 GB RAM = 0.5 capacity units required per hour• 2 vCPU and 8 GB RAM = 1 capacity units required per hour• 4 vCPU and 16 GB RAM = 2 capacity units required per hour• 8 vCPU and 32 GB RAM = 4 capacity units required per hour• 16 vCPU and 64 GB RAM = 8 capacity units required per hour	Free

Summary

Watson Machine Learning **Free**

Location: London

Plan: Lite

Service name: Watson Machine Learning-9g

Resource group: Default

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Resource usage ⓘ


For this month in this project

0 CUH


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Project history

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Name

Model Building

Select runtime

Runtime 22.1 on Python 3.9 XS (2 vCPU 8 GB RAM)

Description (optional)

This file contains the code for building the model and training the model

The selected runtime has 2 vCPU and 8 GB RAM. It consumes 1 capacity unit per hour. [Learn more](#) about capacity unit hours and Watson Studio pricing plans.

Notebook file

Upload only .ipynb files. 52 MB max file size.

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New notebook

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From file

From URL

Name

Model Building

Description (optional)

This file contains the code for building the model and training the model

Select runtime

Runtime 22.1 on Python 3.9 XS (2 vCPU 8 GB RAM)

The selected runtime has 2 vCPU and 8 GB RAM.
It consumes 1 capacity unit per hour.
[Learn more](#) about capacity unit hours and Watson Studio pricing plans.

Language

☒ Python 3.9

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File Edit View Insert Cell Kernel Help Not Connected error Trusted Python 3.9

```
In [ ]:
import os, types
import pandas as pd
from boto3.client import Config
import ibm_boto3

def __iter__(self): return 0

# @hidden_cell
# The following code accesses a file in your IBM Cloud Object Storage. It includes your credentials.
# You might want to remove those credentials before you share the notebook.
cos_client = ibm_boto3.client(service_name='s3',
                              ibm_api_key_id='uTU_N8qXTyqs1JBYYEXhONkZKvuFulypMcV5rIu3SaK1',
                              ibm_auth_endpoint='https://iam.cloud.ibm.com/oidc/token',
                              config=Config(signature_version='oauth'),
                              endpoint_url='https://s3.private.eu.cloud-object-storage.appdomain.cloud')

bucket = 'realtimecommunicationsystempowere-donotdelete-pr-fe1hrie76xkuqa'
object_key = 'first program.txt'

streaming_body_1 = cos_client.get_object(Bucket=bucket, Key=object_key)['Body']

# Your data file was loaded into a boto3.response.StreamingBody object.
# Please read the documentation of ibm_boto3 and pandas to learn more about the possibilities to load the data.
# ibm_boto3 documentation: https://ibm.github.io/ibm-cos-sdk-python/
# pandas documentation: http://pandas.pydata.org/
```

Data

Files Connections

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Insert to code

second program.txt
Insert to code

training_set.zip
Insert to code

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```
# Please read the documentation of ibm_boto3 and pandas to learn more about the possibilities to load the data.
# ibm_boto3 documentation: https://ibm.github.io/ibm-cos-sdk-python/
# pandas documentation: http://pandas.pydata.org/
# Please read the documentation of ibm_boto3 and pandas to learn more about the possibilities to load the data.
# ibm_boto3 documentation: https://ibm.github.io/ibm-cos-sdk-python/
# pandas documentation: http://pandas.pydata.org/

In [ ]: def guid_from_space_name(client, animal_deploy):
    space_client.spaces.get_details()
    return(next(item for item in space['resources'] if item['entity']['name'] == animal_deploy)['metadata']['id'])
    space_uid=guid_from_space_name(client, 'animal_deploy')
    print("space UID = " +space_uid)
    client.set.default_space(space_uid)
    client.software_specifications.list(500)
    software_space_uid=client.software_specifications.get_uid_by_name('tensorflow_rt22.1_py3.9')
    software_space_uid
    model_details=client.repository.store_model(model='animal-classification-model.tgz',meta_props={
    client.repository.ModelMetaNames.NAME:"CNN Model Building",
    client.repository.ModelMetaNames.TYPE:'tensorflow_2.7',
    client.repository.ModelMetaNames.SOFTWARE_SPEC_UID:software_space_uid
    })
```

Data

Files Connections

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second program.txt
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training_set.zip
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File Edit View Insert Cell Kernel Help Trusted Python 3.9

```
In [14]: model.add(Dense(units=512, activation='relu'))
In [15]: model.add(Dense(units=8, activation='softmax'))
In [16]: model.compile(loss='categorical_crossentropy', optimizer='adam', metrics=['accuracy'])
In [17]: model.fit_generator(x_train, steps_per_epoch=24, epochs=10, validation_data=x_test, validation_steps=40)

/usr/local/lib/python3.7/dist-packages/ipykernel_launcher.py:1: UserWarning: 'Model.fit_generator' is deprecated and will be removed in a future version. Please use 'Model.fit', which supports generators.
***Entry point for launching an IPython kernel.

Epoch 1/10
24/24 [=====] - 17s 666ms/step - loss: 1.9786 - accuracy: 0.5628
Epoch 2/10
24/24 [=====] - 16s 662ms/step - loss: 1.4525 - accuracy: 0.6621
Epoch 3/10
24/24 [=====] - 16s 676ms/step - loss: 0.9580 - accuracy: 0.6842
Epoch 4/10
24/24 [=====] - 16s 675ms/step - loss: 0.7076 - accuracy: 0.7240
Epoch 5/10
24/24 [=====] - 16s 659ms/step - loss: 0.6103 - accuracy: 0.7488
Epoch 6/10
24/24 [=====] - 16s 663ms/step - loss: 0.5005 - accuracy: 0.8054
Epoch 7/10
24/24 [=====] - 17s 679ms/step - loss: 0.4164 - accuracy: 0.8904
Epoch 8/10
24/24 [=====] - 18s 723ms/step - loss: 0.3408 - accuracy: 0.8994
Epoch 9/10
24/24 [=====] - 16s 659ms/step - loss: 0.2641 - accuracy: 0.9536
Epoch 10/10
24/24 [=====] - 16s 664ms/step - loss: 0.1676 - accuracy: 0.9672

Out[17]: <keras.callbacks.History at 0x7f8d78637708>

In [18]: model.save('RSL.H5')
```

Data

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```
1 import cv2 #importing opencv library this i to open camera and take the video
2 import numpy as np # to convert image to array and expand dimensions
3 from tensorflow.keras.models import load_model # to load the saved model
4 from tensorflow.keras.preprocessing import image # to preprocess the image
5 model = load_model("dataset.h5") # we are loading the saved model
6 video = cv2.VideoCapture(0) # two parameters 1, bool 0 or 1, frame
7 index = ["A", "B", "C", "D", "E"]
8 index=["A", "B", "C", "D", "E", ""]
9 #from playsound import playsound
10 while(1):
11     success, frame = video.read()
12     cv2.imwrite("image.jpg", frame)
13     img = image.load_img("image.jpg", target_size = (64,64))
14     x = image.img_to_array(img)
15     x = np.expand_dims(x, axis = 0)
16     pred = np.argmax(model.predict(x), axis=-1)
17     p = index[pred[0]]
18     print("detected animal is: "+ str(p))
19     #playsound("animal"+str(str(index[p]))+"is detected")
20     cv2.putText (frame, "predicted animal is "+str(p), (100, 100), cv2. FONT_HERSHEY_SIMPLEX,
21                 (0,0,0), 4)
22     cv2.imshow("showcasewindow", frame)
23
24     if cv2.waitKey(1) & 0xFF == ord('a'):
25         break
26 video.release()
27 cv2.destroyAllWindows()
```

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Source Console Object

Usage

Here you can get help of any object by pressing **Ctrl+I** in front of it, either on the Editor or the Console.

Help can also be shown automatically after writing a left parenthesis next to an object. You can activate this behavior in *Preferences > Help*.

New to Spyder? Read our [tutorial](#)

Help Variable Explorer Plots Files

Console 1/A

In [3]:

DEPLOYING JUPYTER

Python console History

LSP Python: ready

conda (Python 3.9.7)

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