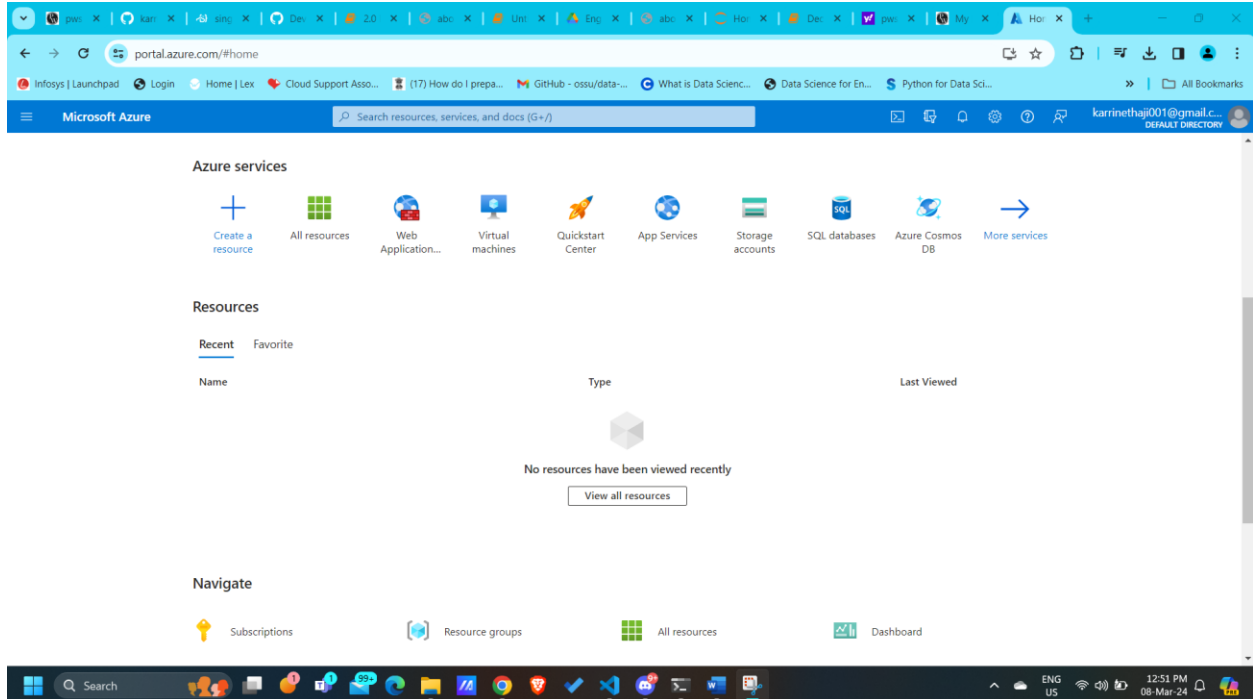


Procedure to deploy the code in the Microsoft Azure:

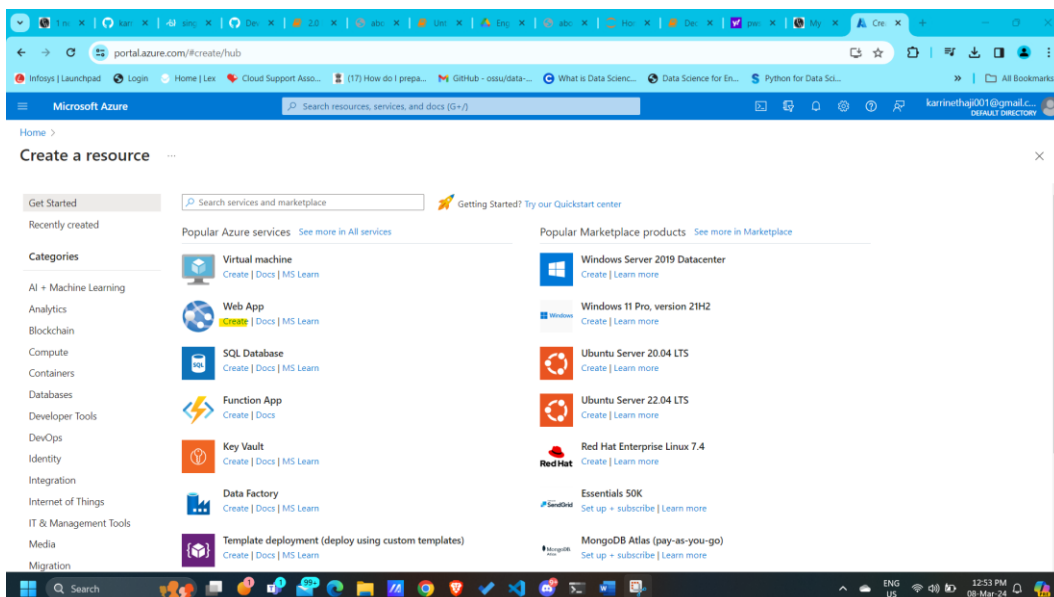
Let's deploy the code from the git-hub link: https://github.com/karrinethaji/ML_Intermediate_24_end-to-end-project-under-azure.git

Microsoft Azure Portal:

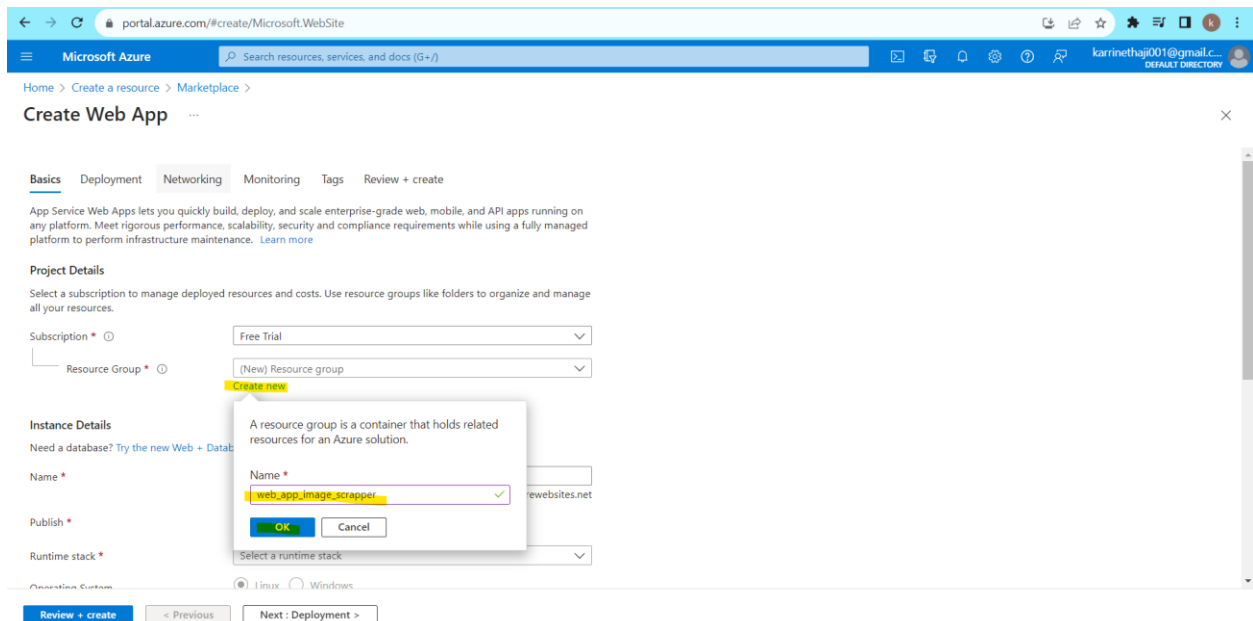
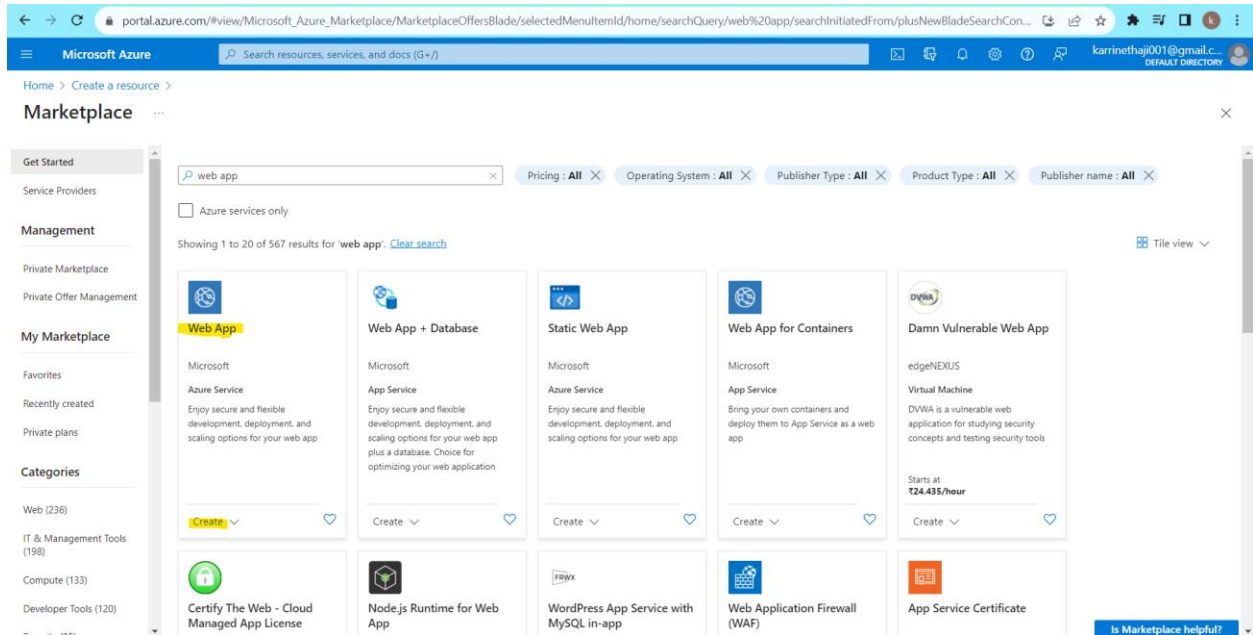
Portal link: <https://portal.azure.com/#home>



➔ Click on “Create a resource”



➔ Choose a “Web app”, Click on “Create” (concentrate on the steps to create the we application ignore the names provided ex: image scrapper)



portal.azure.com/#create/Microsoft.WebSite

Microsoft AzureSearch resources, services, and docs (G+)

Home > Create a resource > Marketplace >

Create Web App...

Project Details

Select a subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * ⓘ

Free Trial

Resource Group * ⓘ

(New) web_app_image_scrapper

Create new

Instance Details

Need a database? Try the new Web + Database experience. ⓘ

Name *

imagescrapperusingpython

✓

.azurewebsites.net

Publish *

☒ Code ☐ Docker Container ☐ Static Web App

Runtime stack *

Python 3.8

Operating System *

☒ Linux ☐ Windows

Region *

East US

ⓘ Not finding your App Service Plan? Try a different region or select your App Service Environment.

Pricing plans

Review + create

< Previous

Next : Deployment >

Click on “Review + Create”

← → ↺

portal.azure.com/#create/Microsoft.WebSite

Microsoft Azure


Search resources, services, and docs (G+ /)

Home > Create a resource > Marketplace >

Create Web App ...

Basics Deployment Networking Monitoring Tags Review + create

Summary

**Web App**
by Microsoft

Basic (B1) sku
Estimated price - 974.61 INR/Month

Details

Subscription	4d8da4af-f962-4025-ae9a-4eeb1f7abdf6
Resource Group	web_app_image_scrapper
Name	imagescrapperusingpython
Publish	Code
Runtime stack	Python 3.8

App Service Plan (New)

Name	ASP-webappimagescrapper-8f56
Operating System	Linux
Region	East US
SKU	Basic
Size	Small
ACU	100 total ACU

Create < Previous Next > Download a template for automation

Click on “deployment”.

portal.azure.com/#create/Microsoft.WebSite

Microsoft Azure Search resources, services, and docs (G+)

Home > Create a resource > Marketplace >

Create Web App ...

Basics **Deployment** Networking Monitoring Tags Review + create

Enable GitHub Actions to continuously deploy your app. GitHub Actions is an automation framework that can build, test, and deploy your app whenever a new commit is made in your repository. If your code is in GitHub, choose your repository here and we will add a workflow file to automatically deploy your app to App Service. If your code is not in GitHub, go to the Deployment Center once the web app is created to set up your deployment. [Learn more](#)

GitHub Actions settings

Continuous deployment ☐ Disable ☒ **Enable**

GitHub Actions details

Select your GitHub details, so Azure Web Apps can access your repository. You must have write access to your chosen repository to deploy with GitHub Actions.

GitHub account **Authorize**

Organization *

Repository *

Branch *

Workflow configuration

File with the GitHub Actions workflow configuration.

Review + create < Previous Next : Networking >

Choose the option **“Enable”** for the Continuous deployment and add the git hub account to get the code from git hub.

Select the organization, **Repository** (where you have a code) and branch.

portal.azure.com/#create/Microsoft.WebSite

Microsoft Azure Search resources, services, and docs (G+)

Home > Create a resource > Marketplace >

Create Web App ...

test, and deploy your app whenever a new commit is made in your repository. If your code is in GitHub, choose your repository here and we will add a workflow file to automatically deploy your app to App Service. If your code is not in GitHub, go to the Deployment Center once the web app is created to set up your deployment. [Learn more](#)

GitHub Actions settings

Continuous deployment ☐ Disable ☒ **Enable**

GitHub Actions details

Select your GitHub details, so Azure Web Apps can access your repository. You must have write access to your chosen repository to deploy with GitHub Actions.

GitHub account **karrinethaj** **Change account**

Organization *

Repository *

Branch *

Workflow configuration

File with the GitHub Actions workflow configuration.

Preview file

Review + create < Previous Next : Networking >

Microsoft Azure

Search resources, services, and docs (G+)

image_scrapper_flask_code1/1

Home > Create a resource > Marketplace >

Create Web App...

BasicsDeploymentNetworkingMonitoringTagsReview + create

Summary

Web App

by Microsoft

Basic (B1) sku

Estimated price - 974.61 INR/Month

Details

Subscription

4d8da4af-f962-4025-ae9a-4eeb1f7abdf6

Resource Group

web_app_image_scrapper

Name

imagescrapperusingpython

Publish

Code

Runtime stack

Python 3.8

App Service Plan (New)

Name

ASP-webappimagescrapper-8f56

Operating System

Linux

Region

East US

SKU

Basic

Size

Small

ACU

100 total ACU

Memory

1.75 GB memory

Create

< Previous

Next >

Download a template for automation

portal.azure.com/#create/Microsoft.WebSite

Microsoft Azure

Search resources, services, and docs (G+)

.in

Home > Create a resource > Marketplace >

Create Web App...

Runtime stackPython 3.8

App Service Plan (New)

Name

ASP-webappimagescrapper-8f56

Operating System

Linux

Region

East US

SKU

Basic

Size

Small

ACU

100 total ACU

Memory

1.75 GB memory

Monitoring

Application Insights

Not enabled

Deployment

Continuous deployment

Enabled

GitHub account

karrinethaji

Organization

karrinethaji

Repository

project2_2_image_scrapper_flask_code

Branch

main

Create

< Previous

Next >

Download a template for automation

Click on “Create” → It will deploy application for you, it will take 2-5 mins

Microsoft Azure

Search resources, services, and docs (G+J)

Home > Microsoft.Web-WebApp-Portal-07970799-9a4e | Overview

Deployment

Search

Delete Cancel Redeploy Download Refresh

✓ Your deployment is complete

Deployment name: Microsoft.Web-WebApp-Portal-07970799-9a4e Start time: 9/3/2023, 3:05:57 PM
Subscription: Free Trial Correlation ID: cc0ca37f-57c9-4fb3-ae52-1142a536d183
Resource group: web_app_image_scrapper

Deployment details

Next steps

Manage deployments for your app. Recommended
Protect your app with authentication. Recommended

Go to resource

Give feedback
Tell us about your experience with deployment

Cost Management
Get notified to stay within your budget and prevent unexpected charges on your bill. Set up cost alerts >

Microsoft Defender for Cloud
Secure your apps and infrastructure
Go to Microsoft Defender for Cloud >

Free Microsoft tutorials
Start learning today

Work with an expert
Azure experts are service provider partners who can help manage your assets on Azure and be your first line of support. Find an Azure expert >

Click on “Go to Resource”

portal.azure.com/#@karrinethaji001gmail.onmicrosoft.com/resource/subscriptions/4d8da4af-f962-4025-ae9a-4eeb1f7abdf6/resourcegroups/web_app_image_scrapper/providers/...

Microsoft Azure

Search resources, services, and docs (G+J)

Home > Microsoft.Web-WebApp-Portal-07970799-9a4e | Overview

imagescrapperusingpython Web App

Search

Browse Stop Swap Restart Delete Refresh Download publish profile Reset publish profile Share to mobile Send us your feedback

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Microsoft Defender for Cloud

Events (preview)

Deployment

Deployment slots

Deployment Center

Settings

Configuration

Authentication

Application Insights

Identity

Backups

Custom domains

Essentials

Resource group (move): [web_app_image_scrapper](#)

Status: Running

Location (move): East US

Subscription (move): [Free Trial](#)

Subscription ID: 4d8da4af-f962-4025-ae9a-4eeb1f7abdf6

Tags (edit): Add tags

Default domain: [imagescrapperusingpython.azurewebsites.net](#)

App Service Plan: ASP-webappimagescrapper-8f56 (B1: 1)

Operating System: Linux

Health Check: Not Configured

GitHub Project: [https://github.com/karrinethaji/project2_2_image_scrapper_flask_code](#)

JSON View

Properties Monitoring Logs Capabilities Notifications Recommendations

Web app

Name: imagescrapperusingpython

Publishing model: Code

Runtime Stack: Python - 3.8

Domains

Default domain: [imagescrapperusingpython.azurewebsites.net](#)

Custom domain: Add custom domain

Deployment Center

Deployment logs

Last deployment: In Progress, building your application
Refresh

Deployment provider: GitHubAction

Application Insights

Name: Not supported. Learn more >

Networking

Click on “Deployment Center”

Microsoft Azure | Search resources, services, and docs (G+)

Home > Microsoft.Web-WebApp-Portal-07970799-9a4e | Overview > imagescrapperusingpython

imagescrapperusingpython | Deployment Center

Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Microsoft Defender for Cloud, Events (preview), Deployment, Deployment slots, **Deployment Center**, Settings, Configuration, Authentication, Application Insights, Identity, Backups, Custom domains

Settings, Logs, FTPS credentials

Refresh, Delete

Time	Commit ID	Logs	Commit Author	Status	Message
Sunday, September 3, 2023 (2)					
09/3/2023, 3:07:44 PM +05:30	b4842cb	App Logs	N/A	Success (Active)	Add or update the Azure App Service build and deployment workflow config
09/3/2023, 3:06:38 PM +05:30	35d6358	Builds/Deploy Logs	Nethaji Mahendra Karri	Success	Add or update the Azure App Service build and deployment workflow config

Azure will deploy to the production environment from git hub. It will create a workflow file inside git hub. Once it deployed then it will give the URL for us.

github.com/karrinethaji/project2_2_image_scrapper_flask_code/actions/runs/6063712905

karrinethaji / project2_2_image_scrapper_flask_code

Code, Issues, Pull requests, **Actions**, Projects, Wiki, Security, Insights, Settings

Build and deploy Python app to Azure Web App - imagescrapperusingpython

Add or update the Azure App Service build and deployment workflow config #1 [Re-run all jobs]

Summary

Jobs: build, deploy

Run details: Usage, Workflow file

Triggered via push 4 minutes ago. Status: Success. Total duration: 2m 37s. Artifacts: 1

main_imagescrapperusingpython.yml

on: push

build (19s) → **deploy (1m 59s)**

<https://imagescrapperusingpython.azure...>

Annotations: 2 warnings

build: The following actions uses node12 which is deprecated and will be forced to run on node16: actions/checkout@v2, actions/setup-python@v1, actions/upload-artifact@...

Click on above highlighted URL.

After connecting git hub code in azure, It will automatically create the below highlighted file.

(The file contains all the parameters related to azure)

The screenshot shows a video player interface for a course titled "Data Science Masters 2.0". The video is titled "Lecture : End To End Projects Implementation". The video content displays a GitHub repository interface for a workflow file named `main_testdiabetes3.yml`. The workflow file is highlighted in the video, showing the following content:

```
name: Diabetes-Deployment-With-BearStalk
on: push
jobs:
  build:
    runs-on: ubuntu-latest
    steps:
      - name: Set up Python version
        uses: actions/setup-python@v2
        with:
          python-version: '3.8'
      - name: Create and start virtual environment
        run: pip install -r requirements.txt
      - name: Install dependencies
        run: pip install -r requirements.txt
      - name: Upload artifact for deployment jobs
        uses: actions/upload-artifact@v2
        with:
          name: artifact
```

After deploying, click on the below highlighted URL and enter the values to predict the output:

The screenshot shows a GitHub Actions workflow run for the repository `karrinethaji/project2_2_image_scrapper_flask_code`. The workflow is titled "Build and deploy Python app to Azure Web App - imagescrapperusingpython". The workflow status is "Success" and it took 2m 37s to complete. The workflow file is `main_imagescrapperusingpython.yml`. The workflow steps are:

- build (19s)
- deploy (1m 59s)

The deployment step is highlighted, showing the URL `https://imagescrapperusingpython.azurewebsites.net/`. The workflow also shows 2 warnings in the annotations section.

pwskills.com/learn/course/data-science-masters-2-eng/64207e5daf09d6280f5654d0/lesson/64e8840ef327f83029eda3/sectionId=64e83cbbfe327f13dd9e89ce&lectureType...

SKILLS < Data Science Masters 2.0 Course Progress 32%

End To End Projects... Lecture : End To End Projects Implementation Mark As Complete

Diabetes Prediction

2
32
12
12
46
65
Diabetes = greeFunction
Age = 10
Predict

26:12 25:55

Overview Attachment Notes Doubts Rating

Once deployment is done then go to the resource and delete the resource.

pwskills.com/learn/course/data-science-masters-2-eng/64207e5daf09d6280f5654d0/lesson/64e8840ef327f83029eda3/sectionId=64e83cbbfe327f13dd9e89ce&lectureType...

SKILLS < Data Science Masters 2.0 Course Progress 32%

End To End Projects... Lecture : End To End Projects Implementation Mark As Complete

testdiabetes3

Overview Activity log Access control (IAM) Tags Deployment and other problems Microsoft Defender for Cloud Events generated

Deployment Deployment slots Deployment center Settings Configuration Authentication Application insights Alerts

Properties Monitoring Logs Capabilities Notifications Recommendations

Web app testdiabetes3 Running Last 100 Publishing mode Code Runtime stack Python - 3.8

Default domain testdiabetes3.azurewebsites.net

Deployment Center Deployment logs No deployments found

Application insights Not supported

26:32 25:55

Overview Attachment Notes Doubts Rating

Delete resource group as well, if there any: (you can find it in home page)

pwskills.com/learn/course/data-science-masters-2-eng/64207e5daf09d6280f5654d0/lesson/64e8840efe327f83029eda3/?sectionId=64e83cbbfe327f13dd9e89ce&lectureType=...

Infosys | Launchpad | Login | Home | Lex | Cloud Support Asso... | (17) How do I prepa... | GitHub - ossu/data-... | What is Data Scienc... | Data Science for En... | Python for Data Sci...

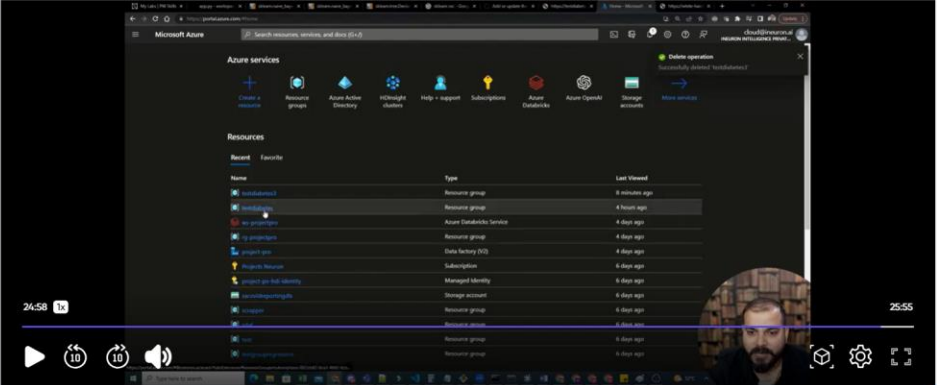
SKILLS < Data Science Masters 2.0 Course Progress 32%

End To End Projects... Lecture : End To End Projects Implementation Mark As Complete

Naive Bayes Assignment...
Naive Bayes Assignment...
Ensemble Techniques An...
Random Forest Classifier...
Out Of Bag Score Decisio...
Decision Tree Classifier...
Ensemble Techniques &...
Ensemble Techniques An...

24:58 25:55

Overview Attachment Notes Doubts Rating



Name	Type	Last Visited
testdiabetes	Resource group	8 minutes ago
testdiabetes	Resource group	4 hours ago
testdiabetes	Resource group	4 hours ago
testdiabetes	Resource group	4 hours ago
testdiabetes	Resource group	4 hours ago
testdiabetes	Resource group	4 hours ago
testdiabetes	Resource group	4 hours ago
testdiabetes	Resource group	4 hours ago
testdiabetes	Resource group	4 hours ago
testdiabetes	Resource group	4 hours ago

pwskills.com/learn/course/data-science-masters-2-eng/64207e5daf09d6280f5654d0/lesson/64e8840efe327f83029eda3/?sectionId=64e83cbbfe327f13dd9e89ce&lectureType=...

Infosys | Launchpad | Login | Home | Lex | Cloud Support Asso... | (17) How do I prepa... | GitHub - ossu/data-... | What is Data Scienc... | Data Science for En... | Python for Data Sci...

SKILLS < Data Science Masters 2.0 Course Progress 32%

End To End Projects... Lecture : End To End Projects Implementation Mark As Complete

Naive Bayes Assignment...
Naive Bayes Assignment...
Ensemble Techniques An...
Random Forest Classifier...
Out Of Bag Score Decisio...
Decision Tree Classifier...
Ensemble Techniques &...
Ensemble Techniques An...

25:09 25:55

Overview Attachment Notes Doubts Rating

