

**Name:** Aditi Dadariya  
**Batch code:** LISUM21  
**Submission date:** June 5, 2023  
**Submitted to:** Data Glacier (Week 5: Cloud and API Deployment)

**Deployment Details:** The cloud platform used in the assignment in Microsoft Azure. The dataset and ML model used to deploy in Microsoft Azure is same as Week 4. The dataset is of credit card approval and the ML models used are Decision Tree Classifier and Linear Discriminant Analysis. Comparison between these two models is performed based on their accuracy and then the model is used for further prediction after tuning the model.

#### Steps followed for deployment in Azure:

1. Updated the app.py file to include the predict\_api function as displayed below.

```
33     @app.route('/predict_api',methods=['POST'])
34     def predict_api():
35         '''
36             For direct API calls through request
37             '''
38         data = request.get_json(force=True)
39         prediction = model.predict([np.array(list(data.values()))])
40
41         #output = prediction[0]
42         if prediction == [0]:
43             output = "Not Approved"
44         elif prediction == [1]:
45             output = "Approved"
46         return jsonify(output)
47
48     if __name__ == "__main__":
49         app.run(debug=True)
50
```

2. Added request.py file to have the json format and return json output as displayed below.

```
request.py ×
request.py > ...
1  #!/usr/bin/env python3
2  # -*- coding: utf-8 -*-
3  .....
4  Created on Sun Jun  4 00:44:49 2023
5
6  @author: aditidadariya
7  .....
8
9  import requests
10 url = 'http://localhost:5000/predict_api'
11
12 r = requests.post(url,json={"A1":1,
13     "A2":153,
14     "A3":0,
15     "A4":1,
16     "A5":0,
17     "A6":12,
18     "A7":7,
19     "A8":1.25,
20     "A9":1,
21     "A10":1,
22     "A11":1,
23     "A12":0,
24     "A13":0,
25     "A14":68,
26     "A15":0
27 })
28
29 print(r.json())
30
```

3. Tested the api request on localhost with the predict\_api as displayed in the two screenshots below. API request worked fine by displaying “Not Approved” and “Approved” in response for the shown json request.

POST http://localhost:5000/predict\_api

**Body**

```

1 {"A1":1,
2 ... "A2":153,
3 ... "A3":0,
4 ... "A4":1,
5 ... "A5":0,
6 ... "A6":12,
7 ... "A7":7,
8 ... "A8":1.25,
9 ... "A9":1,
10 ... "A10":1,
11 ... "A11":1,
12 ... "A12":0,
13 ... "A13":0,
14 ... "A14":68,
15 ... "A15":0
16 }

```

200 OK 7 ms 180 B

```

1 "Not Approved"

```

Code snippet (Python - Requests)

```

1 import requests
2 import json
3
4 url = "http://localhost:5000/predict_api"
5
6 payload = json.dumps({
7     "A1": 1,
8     "A2": 153,
9     "A3": 0,
10    "A4": 1,
11    "A5": 0,
12    "A6": 12,
13    "A7": 7,
14    "A8": 1.25,
15    "A9": 1,
16    "A10": 1,
17    "A11": 1,
18    "A12": 0,
19    "A13": 0,
20    "A14": 68,
21    "A15": 0
22 })
23 headers = {
24     'Content-Type':
25         'application/json'
26 }
27 response = requests.request
28     ("POST", url,
29      headers=headers,
30      data=payload)
31
32 print(response.text)

```

POST http://localhost:5000/predict\_api

**Body**

```

1 {"A1":1,
2 ... "A2":79,
3 ... "A3":1,
4 ... "A4":1,
5 ... "A5":0,
6 ... "A6":1,
7 ... "A7":7,
8 ... "A8":0.5,
9 ... "A9":0,
10 ... "A10":0,
11 ... "A11":0,
12 ... "A12":1,
13 ... "A13":2,
14 ... "A14":94,
15 ... "A15":0
16 }

```

200 OK 21 ms 176 B

```

1 "Approved"

```

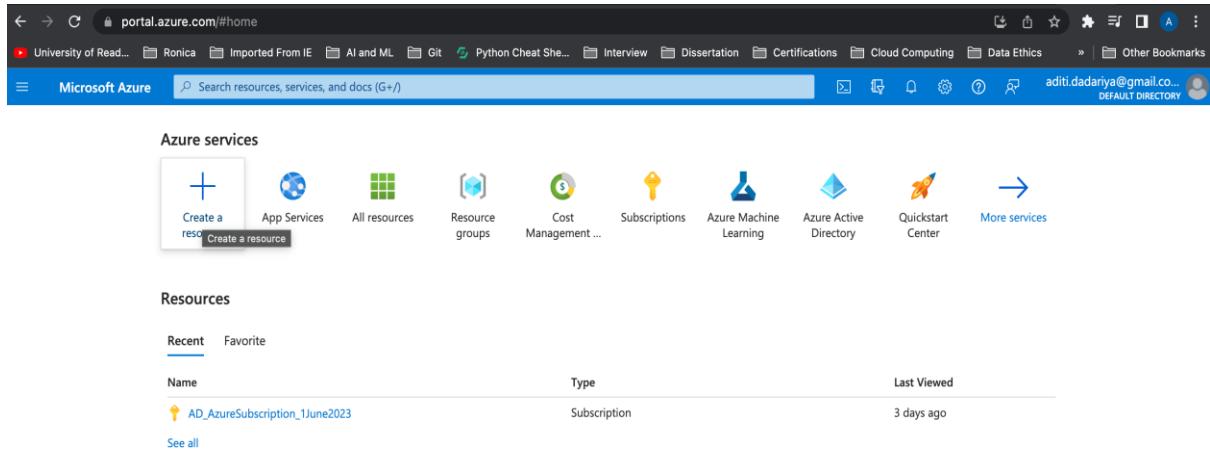
Code snippet (Python - Requests)

```

1 import requests
2 import json
3
4 url = "http://localhost:5000/predict_api"
5
6 payload = json.dumps({
7     "A1": 1,
8     "A2": 79,
9     "A3": 1,
10    "A4": 1,
11    "A5": 0,
12    "A6": 1,
13    "A7": 7,
14    "A8": 0.5,
15    "A9": 0,
16    "A10": 0,
17    "A11": 0,
18    "A12": 1,
19    "A13": 2,
20    "A14": 94,
21    "A15": 0
22 })
23 headers = {
24     'Content-Type':
25         'application/json'
26 }
27 response = requests.request
28     ("POST", url,
29      headers=headers,
30      data=payload)
31
32 print(response.text)

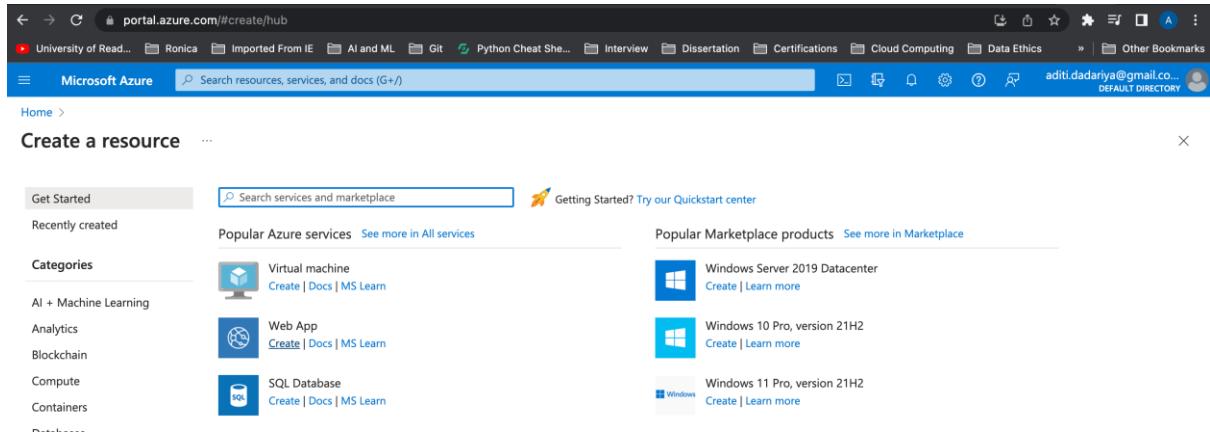
```

4. Logged into Azure. Clicked on Create a resource.



The screenshot shows the Microsoft Azure portal homepage. At the top, there's a navigation bar with links like 'University of Read...', 'Ronica', 'Imported From IE', 'AI and ML', 'Git', 'Python Cheat She...', 'Interview', 'Dissertation', 'Certifications', 'Cloud Computing', 'Data Ethics', and 'Other Bookmarks'. Below the navigation bar is the Microsoft Azure logo and a search bar with the placeholder 'Search resources, services, and docs (G+ /)'. The main content area is titled 'Azure services' and features a 'Create a resource' button with a plus sign icon, which is highlighted with a white border. Other service icons include App Services, All resources, Resource groups, Cost Management ..., Subscriptions, Azure Machine Learning, Azure Active Directory, Quickstart Center, and More services. Below this is a section titled 'Resources' with tabs for 'Recent' (which is selected) and 'Favorite'. It lists a single item: 'AD\_AzureSubscription\_1June2023' (Type: Subscription, Last Viewed: 3 days ago). There's also a 'See all' link.

5. Selected create link under Web App to create a web app deployment of ML Model



The screenshot shows the 'Create a resource' hub in the Microsoft Azure portal. On the left, there's a sidebar with 'Get Started', 'Recently created', and 'Categories' (which includes AI + Machine Learning, Analytics, Blockchain, Compute, Containers, and more). The main area has a 'Popular Azure services' section with a search bar and a 'Getting Started? Try our Quickstart center' link. It lists 'Virtual machine', 'Web App', and 'SQL Database' with 'Create | Docs | MS Learn' links. To the right, there's a 'Popular Marketplace products' section with 'Windows Server 2019 Datacenter', 'Windows 10 Pro, version 21H2', and 'Windows 11 Pro, version 21H2' with their respective 'Create | Learn more' links. The 'Web App' category is currently selected, indicated by a blue background.

6. Selected a subscription and entered values to each field as below. Below 2 screenshots correspond to this step.

- a. Created new resource group as "ADRes\_CreditCardApprovalPrediction".
- b. Entered Name as "CreditCardApprovalPrediction".
- c. Publish as "Code".
- d. Runtime stack as "Python 3.9" as my code is in 3.9.12 version of Python.
- e. Operating System as "Linux".
- f. Region as "East US".
- g. Linux plan was auto populated.
- h. Pricing plan was auto populated as I have taken a premium v3 plan.
- i. Leave Zone redundancy as Disabled.
- j. Click on "Next : Deployment >" button

[portal.azure.com/#create/Microsoft.WebSite](https://portal.azure.com/#create/Microsoft.WebSite)

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## Create Web App

Basics Deployment Networking Monitoring Tags Review + create

App Service Web Apps lets you quickly build, deploy, and scale enterprise-grade web, mobile, and API apps running on any platform. Meet rigorous performance, scalability, security and compliance requirements while using a fully managed platform to perform infrastructure maintenance. [Learn more](#)

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

Subscription \*  Resource Group \*  [Create new](#)

**Instance Details**  
Need a database? [Try the new Web + Database experience.](#)

Name \*  .azurewebsites.net

Publish \*  Code  Docker Container  Static Web App

Runtime stack \*

Operating System \*  Linux  Windows

Region \*

[Review + create](#) [< Previous](#) [Next : Deployment >](#)

[portal.azure.com/#create/Microsoft.WebSite](https://portal.azure.com/#create/Microsoft.WebSite)

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## Create Web App

Runtime stack \*

Operating System \*  Linux  Windows

Region \*   
Not finding your App Service Plan? Try a different region or select your App Service Environment.

**Pricing plans**  
App Service plan pricing tier determines the location, features, cost and compute resources associated with your app.  
[Learn more](#)

Linux Plan (East US) \*  [Create new](#)

Pricing plan  [Explore pricing plans](#)

**Zone redundancy**  
An App Service plan can be deployed as a zone redundant service in the regions that support it. This is a deployment time only decision. You can't make an App Service plan zone redundant after it has been deployed. [Learn more](#)

Zone redundancy  **Enabled:** Your App Service plan and the apps in it will be zone redundant. The minimum App Service plan instance count will be three.  **Disabled:** Your App Service Plan and the apps in it will not be zone redundant. The minimum App Service plan instance count will be one.

[Review + create](#) [< Previous](#) [Next : Deployment >](#)

7. In the Deployment screen,
  - a. Enabled the continuous deployment.
  - b. Github account is already selected here.
  - c. Selected Organization as my user “aditidadariya”
  - d. Selected Repository as “Deployment-of-Flask”. This is my week4’s deployment repository.
  - e. Selected main branch.

**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	aditidadariya
Organization *	aditidadariya
Repository *	Deployment-of-Flask
Branch *	main

**Workflow configuration**

File with the GitHub Actions workflow configuration.

[Preview file](#)

[Review + create](#) [< Previous](#) [Next : Networking >](#)

8. A workflow file is created automatically as soon as all the fields are filled. Preview of the workflow file displayed in the three screenshots below. This workflow file will be saved in github after the deployment is completed.

```

1 # Docs for the Azure Web Apps Deploy action: https://github.com/Azure/webapps-deploy
2 # More GitHub Actions for Azure: https://github.com/Azure/actions
3 # More info on Python, GitHub Actions, and Azure App Service: https://aka.ms/python-webapps-actions
4
5 name: Build and deploy Python app to Azure Web App - CreditCardApprovalPrediction
6
7 on:
8   push:
9     branches:
10       - main
11       workflow_dispatch:
12
13 jobs:
14   build:
15     runs-on: ubuntu-latest
16
17   steps:
18     - uses: actions/checkout@v2
19
20     - name: Set up Python version
21       uses: actions/setup-python@v1
22       with:
23         python-version: '3.9'
24
25     - name: Create and start virtual environment
26       run: |
27         python -m venv venv
28         source venv/bin/activate
29
30     - name: Install dependencies
31       run: pip install -r requirements.txt
  
```

[Review + create](#) [< Previous](#) [Next : Networking >](#) [Close](#)

## Workflow configuration

File path: .github/workflows/main-CreditCardApprovalPrediction(production).yml

```
31
32
33     run: pip install -r requirements.txt
34
35     # Optional: Add step to run tests here (PyTest, Django test suites, etc.)
36
37     - name: Upload artifact for deployment jobs
38       uses: actions/upload-artifact@v2
39       with:
40         name: python-app
41         path: |
42           .
43           !venv/
44
45   deploy:
46     runs-on: ubuntu-latest
47     needs: build
48     environment:
49       name: 'production'
50       url: ${{ steps.deploy-to-webapp.outputs.webapp-url }}
51
52   steps:
53     - name: Download artifact from build job
54       uses: actions/download-artifact@v2
55       with:
56         name: python-app
57         path: .
58
59     - name: 'Deploy to Azure Web App'
60       uses: azure/webapps-deploy@v2
61       id: deploy-to-webapp
62       with:
63         app-name: 'CreditCardApprovalPrediction'
```

[Close](#)

## Workflow configuration

File path: .github/workflows/main-CreditCardApprovalPrediction(production).yml

```
34
35
36     - name: Upload artifact for deployment jobs
37       uses: actions/upload-artifact@v2
38       with:
39         name: python-app
40         path: |
41           .
42           !venv/
43
44   deploy:
45     runs-on: ubuntu-latest
46     needs: build
47     environment:
48       name: 'production'
49       url: ${{ steps.deploy-to-webapp.outputs.webapp-url }}
50
51   steps:
52     - name: Download artifact from build job
53       uses: actions/download-artifact@v2
54       with:
55         name: python-app
56         path: .
57
58     - name: 'Deploy to Azure Web App'
59       uses: azure/webapps-deploy@v2
60       id: deploy-to-webapp
61       with:
62         app-name: 'CreditCardApprovalPrediction'
63         slot-name: 'production'
64         publish-profile: ${{ secrets.AzureAppService_PublishProfile_1234 }}
```

[Close](#)

9. Closed the workflow preview and clicked on “Review + create” button.

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

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

Home > Create a resource >

### 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: aditidadariya [Change account](#)

Organization \*: aditidadariya

Repository \*: Deployment-of-Flask

Branch \*: main

**Workflow configuration**

File with the GitHub Actions workflow configuration.

[Preview file](#) [Review and create](#)

[Review + create](#) [< Previous](#) [Next : Networking >](#)

10. Review and create page is displayed below. Clicked on Create button.

The screenshot shows the 'Create Web App' review step in the Azure portal. At the top, there are tabs for Basics, Deployment, Networking, Monitoring, Tags, and **Review + create**. The 'Review + create' tab is selected. Below the tabs, there's a 'Summary' section showing a **Web App by Microsoft** icon and a **Premium V3 (P1V3) sku** with an estimated price loading. The 'Details' section lists subscription information (50cd3c05-d178-4530-9c2e-794000538d33), resource group (ADRes\_CreditCardApprovalPrediction), name (CreditCardApprovalPrediction), publish (Code), and runtime stack (Python 3.9). The 'App Service Plan (New)' section shows a plan named ASP-ADResCreditCardApprovalPredicti-b302, configured for Linux, East US, Premium V3, Small size, 195 minimum ACU/vCPU, and 8 GB memory. At the bottom, there are buttons for 'Create' (highlighted in blue), '< Previous', 'Next >', and 'Download a template for automation'.

This screenshot shows the same 'Create Web App' review page as the previous one, but with different configuration values. The 'Name' field is set to 'CreditCardApprovalPrediction', 'Publish' to 'Code', and 'Runtime stack' to 'Python 3.9'. The 'App Service Plan (New)' section shows a plan named ASP-ADResCreditCardApprovalPredicti-b302, configured for Linux, East US, Premium V3, Small size, 195 minimum ACU/vCPU, and 8 GB memory. The 'Monitoring' section shows 'Application Insights' as 'Not enabled'. The 'Deployment' section shows 'Continuous deployment' as 'Enabled' with GitHub account 'aditidadariya', organization 'aditidadariya', repository 'Deployment-of-Flask', and branch 'main'. At the bottom, there are buttons for 'Create' (highlighted in blue), '< Previous', 'Next >', and 'Download a template for automation'.

## 11. The deployment has been initialized.

## 12. In few minutes the Deployment is in progress

Deployment name: Microsoft.Web-WebApp-Portal-ad7f88cb-b10a  
Subscription: AD\_AzureSubscription\_1June2023  
Resource group: ADRes\_CreditCardApprovalPrediction

Start time: 6/4/2023, 3:36:56 PM  
Correlation ID: e2c9614f-df1e-4c10-b244-a78b767db244

Resource Type Status Operation details

ASP-ADResCreditCardApproval Microsoft.Web/serverfarms OK Operation details

13. The deployment is complete as displayed below. Here the deployment shows that it is completed, however it has only created the web app portal.

The screenshot shows the Microsoft Azure portal at [portal.azure.com](https://portal.azure.com/#view/HubsExtension/DeploymentDetailsBlade/-/overview/id%2Fsubscriptions%2F50cd3c05-d178-4530-9c2e-794000538d33%2Fre...). The page title is "Microsoft.Web-WebApp-Portal-ad7f88cb-b10a | Overview". A prominent message says "Your deployment is complete". Deployment details show the name as "Microsoft.Web-WebApp-Portal-ad7f88cb-b10a", subscription as "AD\_AzureSubscription\_1June2023", and start time as "6/4/2023, 3:36:56 PM". A success message indicates "Deployment succeeded" to resource group "ADRes\_CreditCardApprovalPrediction". On the right, there are links for "Cost Management", "Microsoft Defender for Cloud", "Free Microsoft tutorials", and "Work with an expert".

14. Clicked on Go to Resource. The url for the web app has been displayed against Default domain as "creditcardapprovalprediction.azurewebsites.net"

The screenshot shows the Microsoft Azure portal at [portal.azure.com](https://portal.azure.com/#@aditidadar@gmail.onmicrosoft.com/resource/subscriptions/50cd3c05-d178-4530-9c2e-794000538d33/resourcegroups/ADRes_Cr...). The page title is "Home > Microsoft.Web-WebApp-Portal-ad7f88cb-b10a | Overview". The main content area displays the "CreditCardApprovalPrediction" web app. It shows the "Default domain" as "creditcardapprovalprediction.azurewebsites.net". Other properties listed include "Status: Running", "Location: East US", "Subscription: AD\_AzureSubscription\_1June2023", "Subscription ID: 50cd3c05-d178-4530-9c2e-794000538d33", and "Tags: Click here to add tags". The "Properties" tab is selected, showing "Name: CreditCardApprovalPrediction", "Publishing model: Code", "Runtime Stack: Python - 3.9", and "Domains" section with "Default domain: creditcardapprovalprediction.azurewebsites.net".

15. Selected Deployment Center in the left panel to check the logs of deployment. It takes few minutes to load the Logs as displayed below.

CreditCardApprovalPrediction | Deployment Center

Web App

Search

Save Discard Browse Manage publish profile Sync Leave Feedback

Overview Activity log Access control (IAM) Tags Diagnose and solve problems Microsoft Defender for Cloud Events (preview)

Deployment Deployment slots Deployment Center

Settings

Logs

FTPS credentials Refresh Loading deployment logs...

16. Once the logs were loaded, the status of deployment was updated to pending.

CreditCardApprovalPrediction | Deployment Center

Web App

Search Save Discard Browse Manage publish profile Sync Leave Feedback

Overview Activity log Access control (IAM) Tags Diagnose and solve problems Microsoft Defender for Cloud Events (preview)

Deployment Deployment slots Deployment Center

Settings

Logs

FTPS credentials Refresh

Time	Commit ID	Logs	Commit Author	Status	Message
Sunday, June 4, 2023 (1)	06/4/2023, 3:38:24 PM +01:00	temp-5f	App Logs	N/A	Pending Deploying from pushed zip file

17. Clicked on Refresh. It took few minutes to finish the deployment as displayed in the logs status below

CreditCardApprovalPrediction | Deployment Center

Web App

Search Save Discard Browse Manage publish profile Sync Leave Feedback

Overview Activity log Access control (IAM) Tags Diagnose and solve problems Microsoft Defender for Cloud Events (preview)

Deployment Deployment slots Deployment Center

Settings

Logs

FTPS credentials Refresh

Time	Commit ID	Logs	Commit Author	Status	Message
Sunday, June 4, 2023 (2)	06/4/2023, 3:38:28 PM +01:00	9803edb	App Logs	N/A	Running oryx build... Add or update the Azure App Service build and deployment workflow config
06/4/2023, 3:38:24 PM +01:00	temp-5f	App Logs	N/A	Pending	Deploying from pushed zip file

18. After the deployment is finished the Status becomes “Success (Active)” as displayed below.

The screenshot shows the Microsoft Azure Deployment Center for a Web App named "CreditCardApprovalPrediction". The "Logs" tab is selected. A deployment log entry is visible, showing a successful deployment on June 4, 2023, at 3:38:28 PM +01:00, with Commit ID 9803ed8 and App Logs. The status is listed as "Success (Active)". A tooltip provides instructions for adding or updating the Azure App Service build and deployment workflow config.

19. A workflow yml file “main\_creditcardapprovalprediction.yml” has been created in the github repository under a new folder “.github/workflows” as displayed below.

The screenshot shows a GitHub repository interface. The "Code" tab is selected. The main repository structure is visible, including a ".github" folder containing "workflows". Inside "workflows", there is a file named "main\_creditcardapprovalprediction.yml". Other files in the repository include "app.py", "cleancreditdata.csv", "config.py", "functionlibrary.py", "model.pkl", "model.py", "request.py", and "requirements.txt".

20. Copy the url “creditcardapprovalprediction.azurewebsites.net” from web app created in step 14 and open it in a browser. The below screenshot shows the web app with all 15 input text boxes and a Predict button.

The screenshot shows a web browser window with the URL "creditcardapprovalprediction.azurewebsites.net". The page title is "Prediction for Credit Card Approval". Below the title is a form containing 15 input fields arranged in two columns. The first column contains fields A1, A3, A5, A7, A9, A11, and A13. The second column contains fields A2, A4, A6, A8, A10, A12, and A14. Below these two columns is a single input field labeled A15. At the bottom of the form is a "Predict" button.

21. To test the web app, entered all 15 values and clicked on Predict button as displayed in the two screenshots below. The output displayed is “The predicted approval is Approved”.

The screenshot shows the same web application as above, but with different values entered into the input fields. The first column (A1, A3, A5, A7, A9, A11, A13) now contains values 1, 1, 0, 7, 0, 0, and 2 respectively. The second column (A2, A4, A6, A8, A10, A12, A14) now contains values 79, 1, 1, 0.5, 0, 1, and 94 respectively. The A15 field contains the value 0. The "Predict" button is visible at the bottom.

The screenshot shows the results of the prediction. Below the input form, the text "The predicted approval is Approved" is displayed. The rest of the page is identical to the previous screenshots, showing the input fields and the "Predict" button.

22. Entered all 15 values to test the web app again and clicked on Predict button as displayed in the two screenshots below. The output displayed is “The predicted approval is Not Approved”.

**Prediction for Credit Card Approval**

1	153
0	1
0	12
7	1.25
1	1
1	0
0	68
0	
<input type="button" value="Predict"/>	

**Prediction for Credit Card Approval**

A1	A2
A3	A4
A5	A6
A7	A8
A9	A10
A11	A12
A13	A14
A15	
<input type="button" value="Predict"/>	

The predicted approval is Not Approved

23. To test the API, entered the url “[https://creditcardapprovalprediction.azurewebsites.net/predict\\_api](https://creditcardapprovalprediction.azurewebsites.net/predict_api)” in postman, selected POST request, provided the json with all the values in Body and clicked on Send button as displayed below. The response shows “Approved” and Status: 200 OK.

POST http://localhost:5000/predict\_api

POST https://creditcardapprovalprediction.azurewebsites.net/predict\_api

Params    Authorization    Headers (8)    **Body**    Pre-request Script    Tests    Settings

none    form-data    x-www-form-urlencoded    raw    binary    **JSON**

```

1 {"A1":1,
2   "A2":79,
3   "A3":1,
4   "A4":1,
5   "A5":0,
6   "A6":1,
7   "A7":7,
8   "A8":0.5,
9   "A9":0,
10  "A10":0,
11  "A11":0,
12  "A12":1,
13  "A13":2,
14  "A14":94,
15  "A15":0
16 }

```

Send

Body    Cookies    Headers (4)    Test Results

Pretty    Raw    Preview    Visualize    JSON

Status: 200 OK    Time: 473 ms    Size: 137 B    Save Response

1 "Approved"

24. Provided different values in json to test the API again, and clicked on Send button as displayed below. The response shows “Not Approved” and Status: 200 OK.

The screenshot shows the Postman interface. The URL is https://creditcardapprovalprediction.azurewebsites.net/predict\_api. The Body tab is selected, showing a JSON payload with 16 fields labeled A1 through A15. The response status is 200 OK, and the body contains the string "Not Approved".

25. Deleted the web app in Azure as displayed in three screenshots below.

The first screenshot shows the Azure portal dashboard with the 'CreditCardApprovalPrediction' web app selected. The second screenshot shows the 'Delete' confirmation dialog with the app name 'CreditCardApprovalPrediction' entered. The third screenshot shows the 'Affected resources' section with two items: 'CreditCardApprovalPredict...' (Web App) and 'ASP-ADResCreditCardAppr...' (App Service plan). A note at the bottom states: 'This is the last app in the App Service plan. Delete this App Service plan to prevent unexpected charges.' The 'Delete' button is highlighted.

**CreditCardApprovalPrediction** Web App

**Essentials**

- Resource group: ADRes\_CreditCardApprovalPrediction
- Status: Running
- Location: East US
- Subscription: AD\_AzureSubscription\_1June2023
- Subscription ID: 50cd3c05-d178-4530-9c2e-794000538d33
- Tags: Click here to add tags
- Default domain: creditcardapprovalprediction.azurewebsites.net
- App Service Plan: ASP-ADResCreditCardApprovalPredicti-b302 (P1v3: 1)
- Operating System: Linux
- Health Check: Not Configured
- GitHub Project: <https://github.com/aditidadariya/Deployment-of-Flask>

**Properties** Monitoring Logs Capabilities Notifications Recommendations

**Web app**

- Name: CreditCardApprovalPrediction
- Publishing model: Code
- Runtime Stack: Python - 3.9

**Domains**

- Default domain: creditcardapprovalprediction.azurewebsites.net
- Custom domain: Add custom domain

**Hosting**

**CreditCardApprovalPrediction** Web App

**Essentials**

- Resource group: ADRes\_CreditCardApprovalPrediction
- Status: Running
- Location: East US
- Subscription: AD\_AzureSubscription\_1June2023
- Subscription ID: 50cd3c05-d178-4530-9c2e-794000538d33
- Tags: Click here to add tags
- Default domain: creditcardapprovalprediction.azurewebsites.net
- App Service Plan: ASP-ADResCreditCardApprovalPredicti-b302 (P1v3: 1)
- Operating System: Linux
- Health Check: Not Configured
- GitHub Project: <https://github.com/aditidadariya/Deployment-of-Flask>

**Properties** Monitoring Logs Capabilities Notifications Recommendations

**Web app**

- Name: CreditCardApprovalPrediction
- Publishing model: Code
- Runtime Stack: Python - 3.9

**Domains**

- Default domain: creditcardapprovalprediction.azurewebsites.net

## 26. Deleted the resources as displayed in four screenshots below.

**Delete a resource group**

The following resource group and all its dependent resources will be permanently deleted.

**Resource group to be deleted**

- ADRes\_CreditCardApprovalPrediction

**Dependent resources to be deleted (1)**

Name	Resource type
ASP-ADResCreditCardApprovalPredicti-b302	App Service plan

**No resources m**

Try changing or cl

Enter resource group name to confirm deletion \*

ADRes\_CreditCardApprovalPrediction

**Create resources** **Delete** **Cancel**

## Delete a resource group

X

The following resource group and all its dependent resources will be permanently deleted.

### Resource group to be deleted



### Dependent resources to be deleted (1)

All dependent resources, including hidden types, are shown

Name

Resource type



### Delete confirmation

Deleting this resource group and its dependent resources is a permanent action and cannot be undone.

[Delete](#)

[Go back](#)

Enter resource group name to confirm deletion \*

ADRes\_CreditCardApprovalPrediction

[Delete](#)

[Cancel](#)

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

Home > ADRes\_CreditCardApprovalPrediction Resource group

Overview

Subscription (move) : AD\_AzureSubscription\_1June2023 Deployment : 1 Succeeded

Subscription ID : 50cd3c05-d178-4530-9c2e-794000538d33 Location : East US

Tags (edit) : Click here to add tags

Essentials

Resources Recommendations

Filter for any field... Type equals all Location equals all Add filter

Showing 0 to 0 of 0 records. Show hidden types

Name ↑ Type ↑ Location ↑

No grouping List view

Cost Management

Cost analysis



## Notifications

X

[More events in the activity log →](#)

[Dismiss all](#)

**Deleted resource group ADRes\_CreditCardApprovalPrediction**

Deleted resource group ADRes\_CreditCardApprovalPrediction

a few seconds ago

**Delete operation**

Successfully deleted 'CreditCardApprovalPrediction'

3 minutes ago