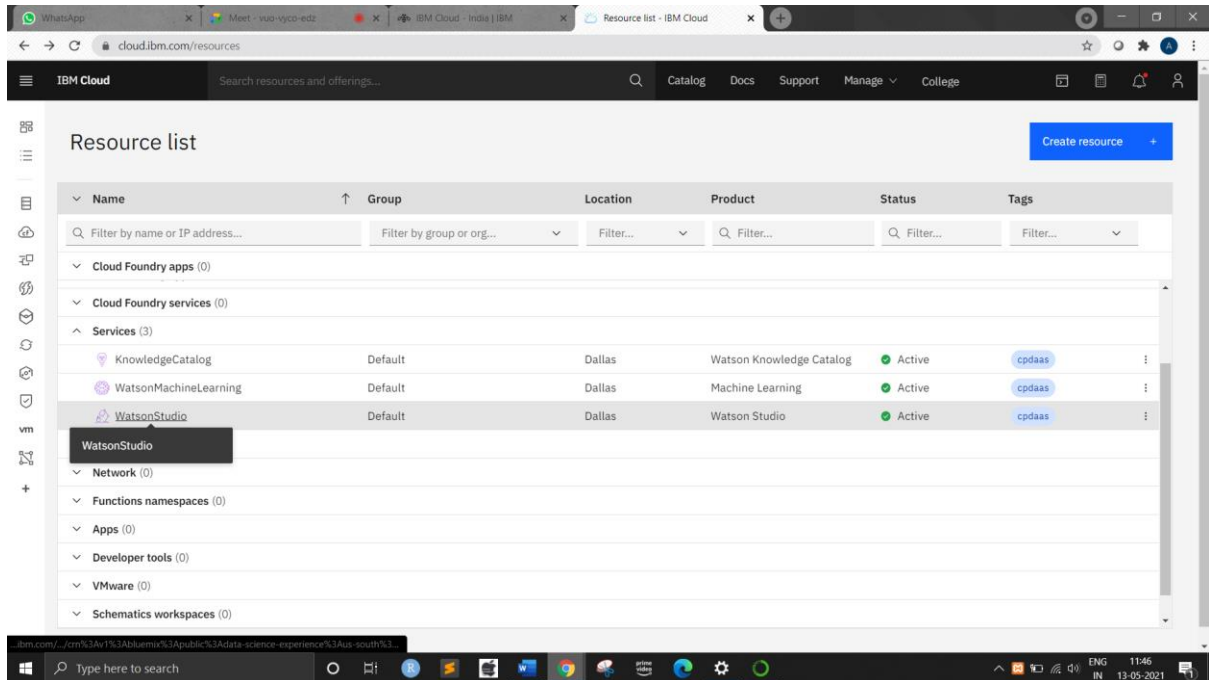


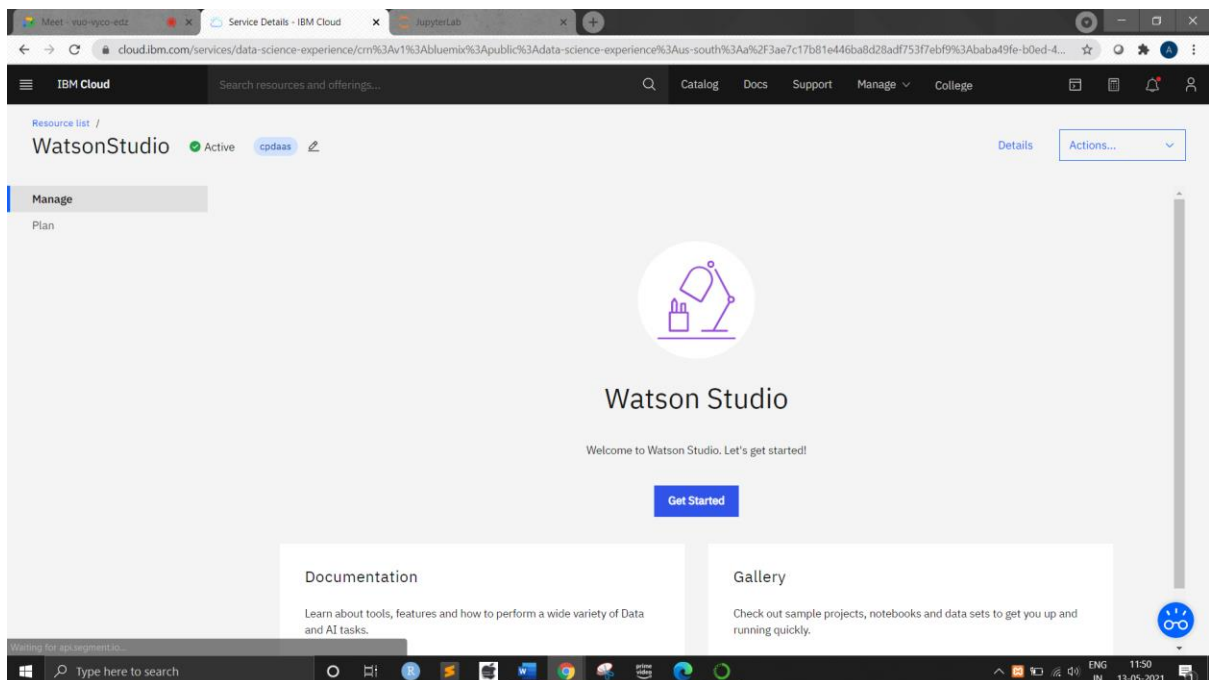
## PHASE 3

### Implementing the Machine Learning Model on selected data sets and deploy your model with the creation of Job:

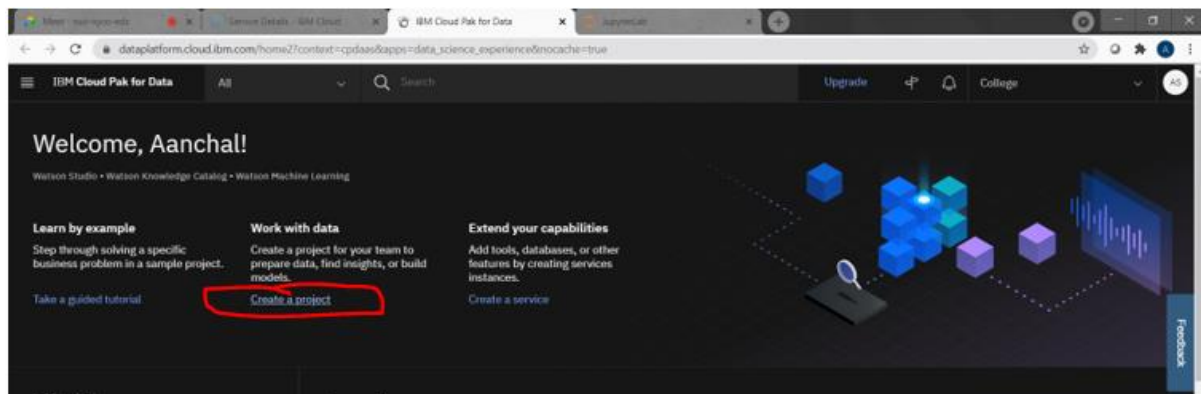
1. First, login in the IBM Cloud and then in the resource list in the services section, click on WatsonStudio Service, If not created then first create it.



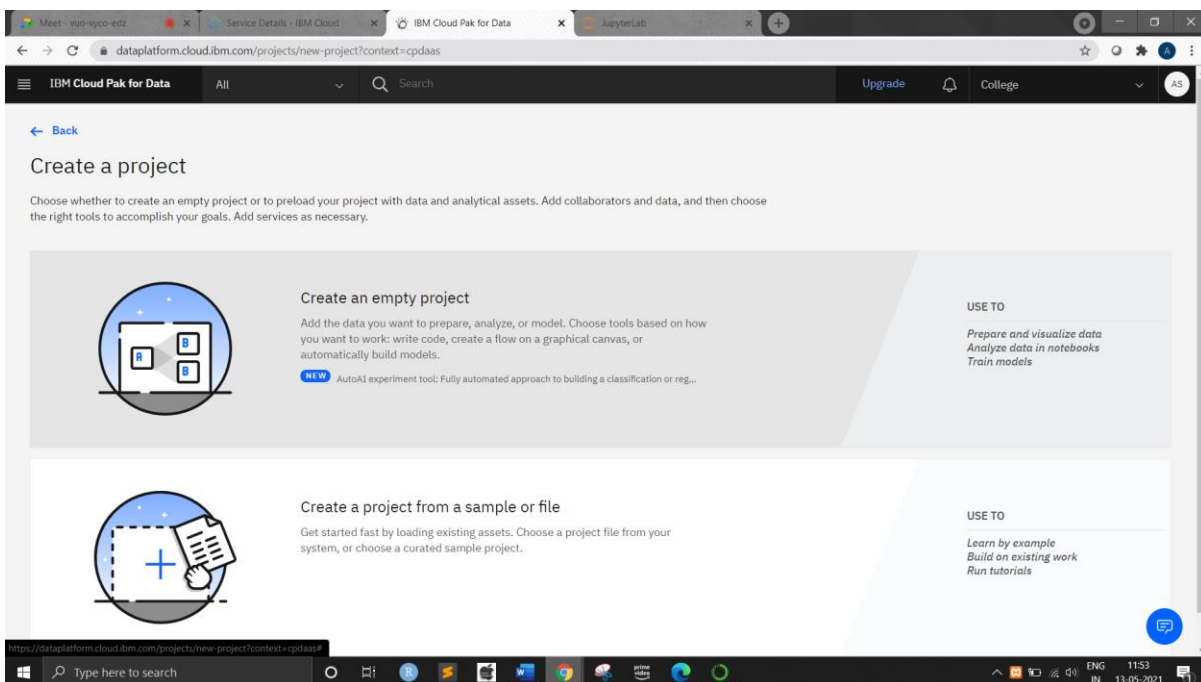
2. Start the WatsonStudio by clicking at the center on Get Started.



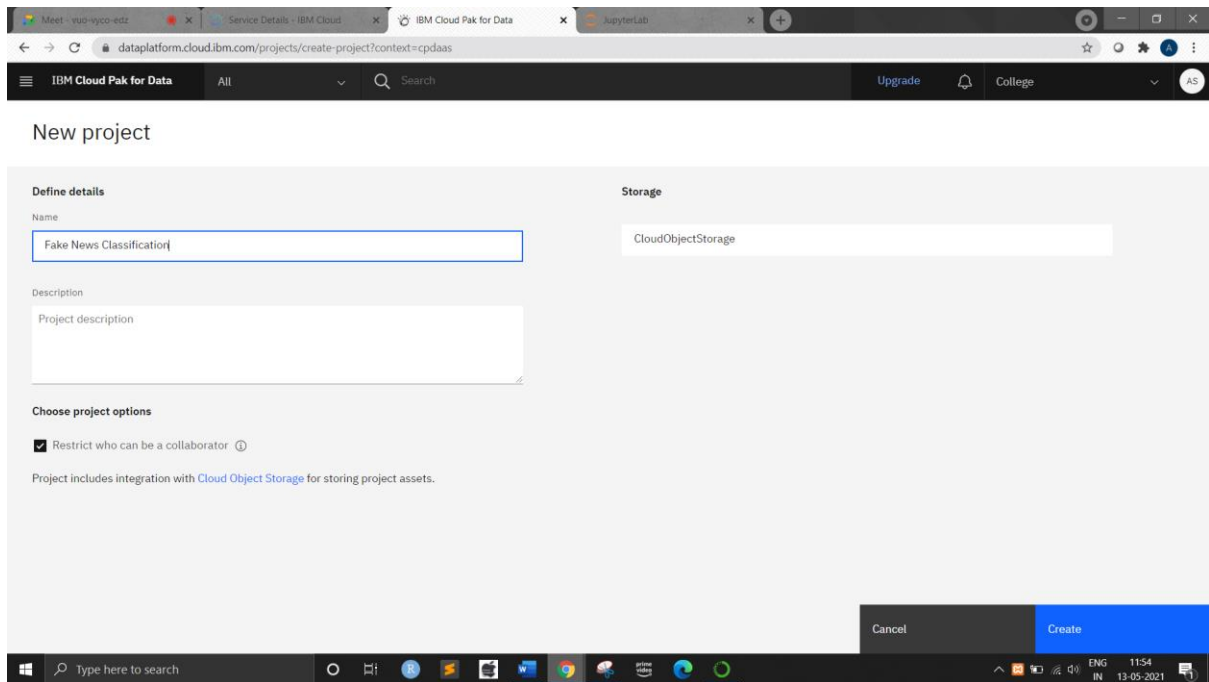
3. Click on Create a Project to create the project you want to work on.



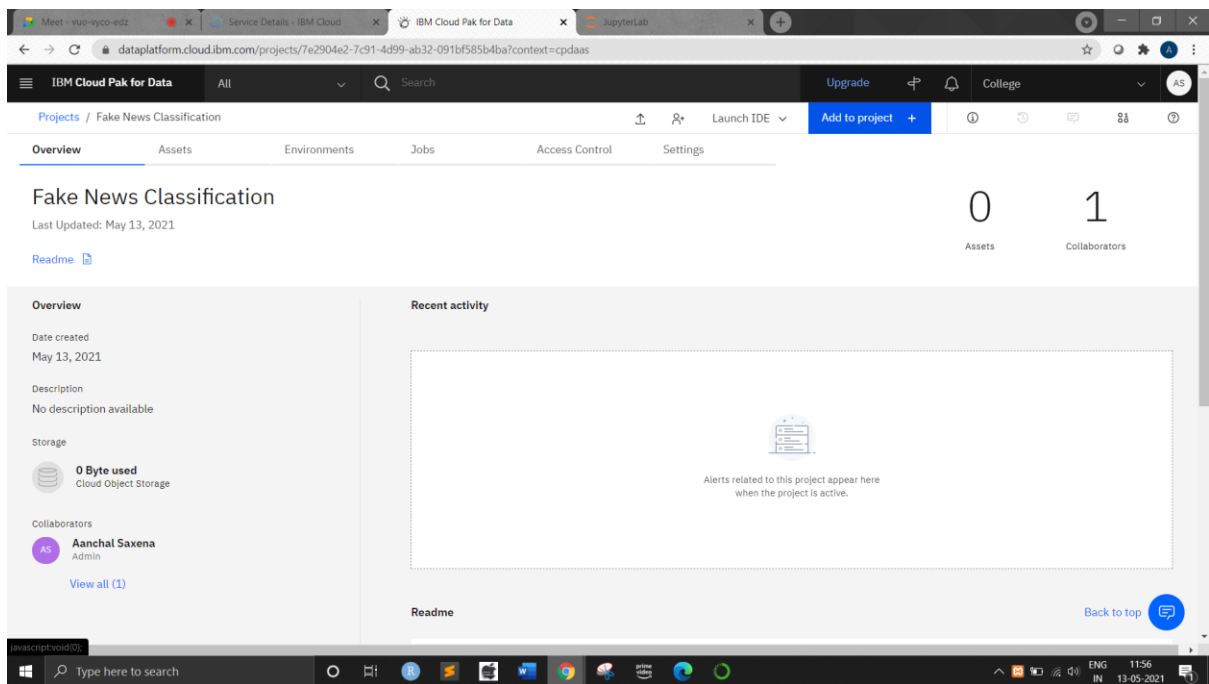
4. Click on Create an empty project.



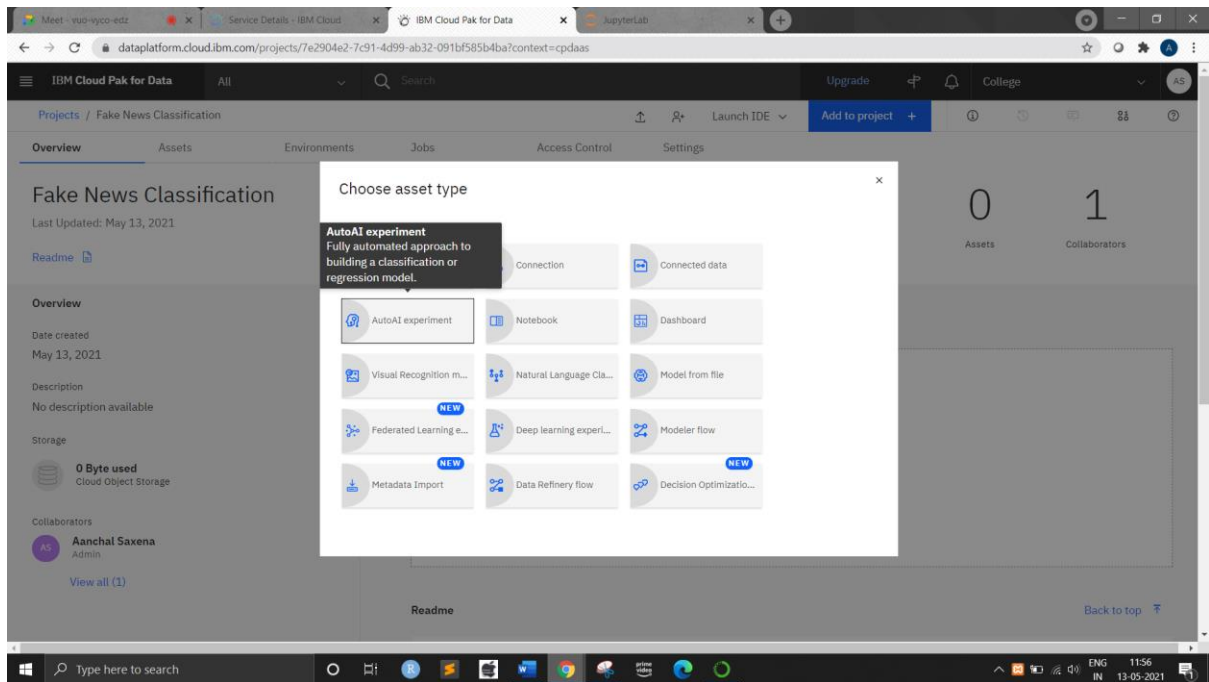
5. Give a Project Name and click on Create in the bottom-right corner.



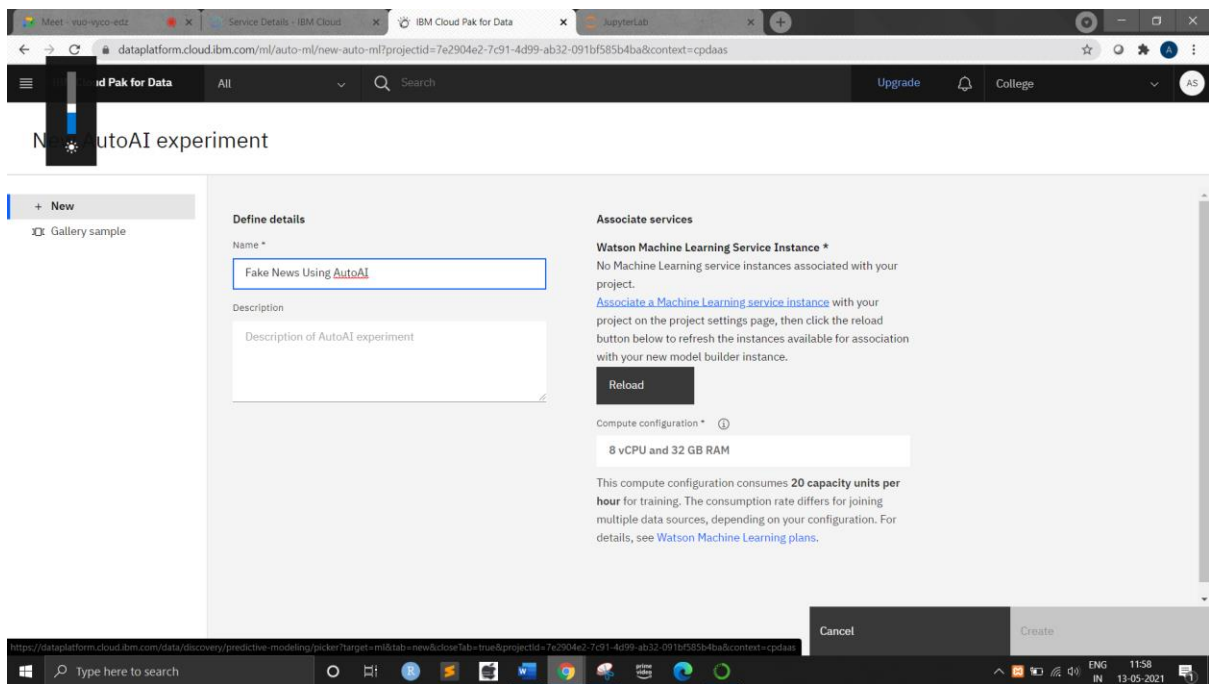
6. Click on Add to project + button at the top-right corner.



7. Click on AutoAI experiment.



8. Click on Associate a ML instance breadcrumb link.



9. Select WatsonMachineLearning Service and click on Associate Service button present at right-corner of the table appearing.

Associate service

Choose an existing or add a new service to associate with your project.

Filter by: Resource Groups 2 Locations None

| Name                  | Type             | Plan | Location | Status         | Group   |
|-----------------------|------------------|------|----------|----------------|---------|
| WatsonMachineLearning | Machine Learning | Lite | Dallas   | Not associated | Default |

Associate service Cancel

10. You'll be directed to this page, click on Reload and Associate services will have an option of the given ML service, just click on Create.

New AutoAI experiment

+ New

Gallery sample

Define details

Name \*

Fake News Using AutoAI

Description

Description of AutoAI experiment

Associate services

Watson Machine Learning Service Instance\*

WatsonMachineLearning

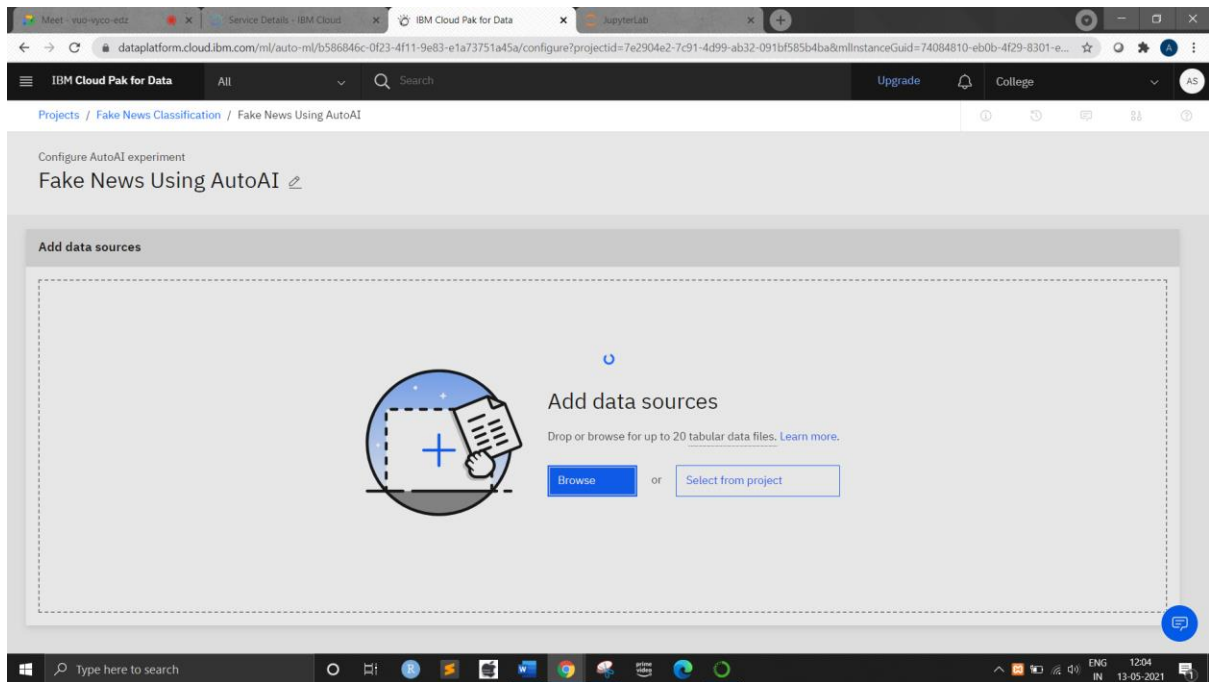
Compute configuration \*

8 vCPU and 32 GB RAM

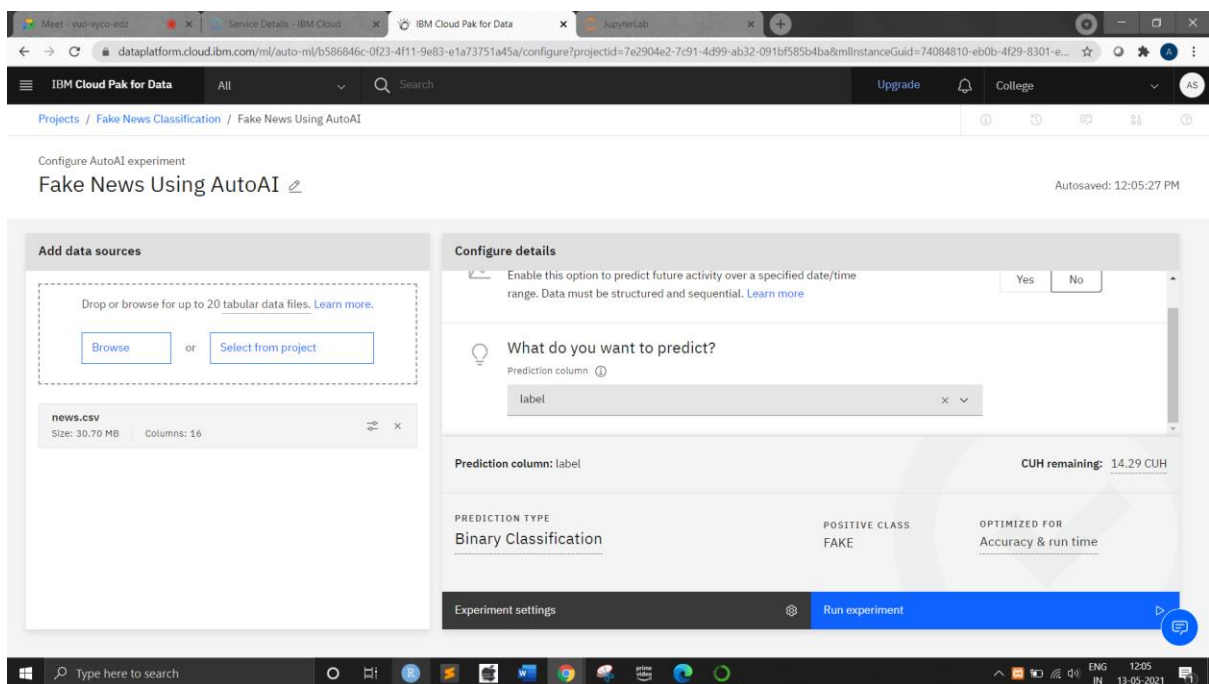
This compute configuration consumes 20 capacity units per hour for training. The consumption rate differs for joining multiple data sources, depending on your configuration. For details, see [Watson Machine Learning plans](#).

Cancel Create

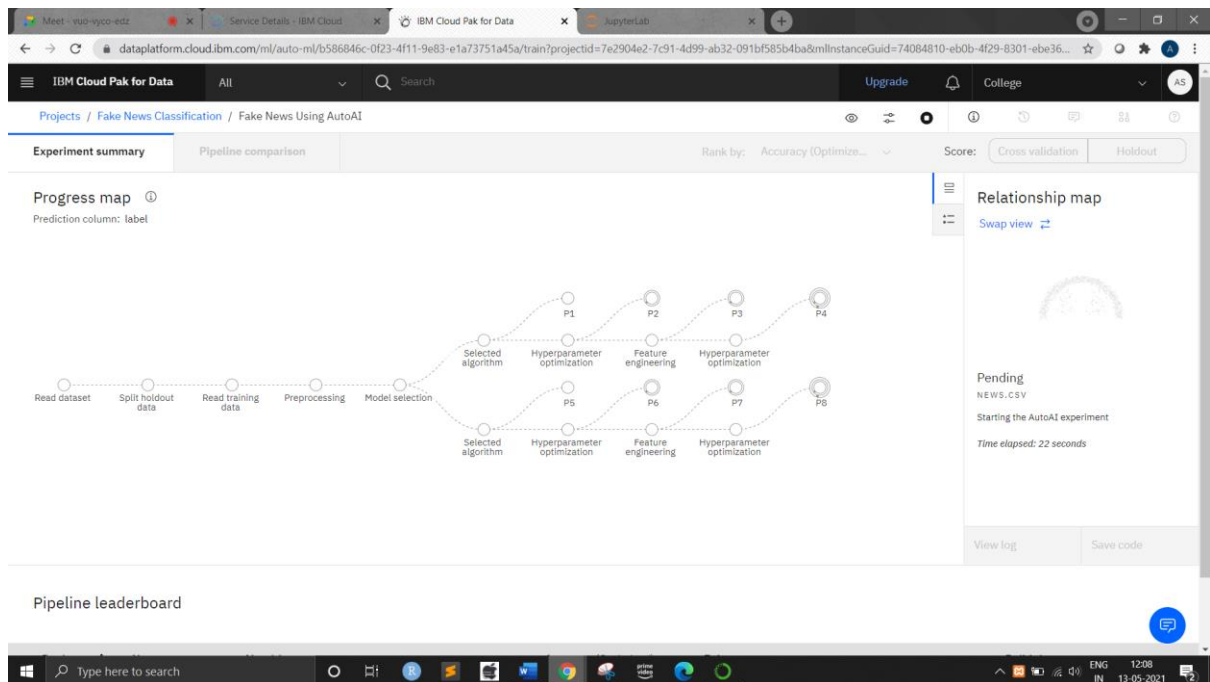
11. Click on Browse and add your dataset there.



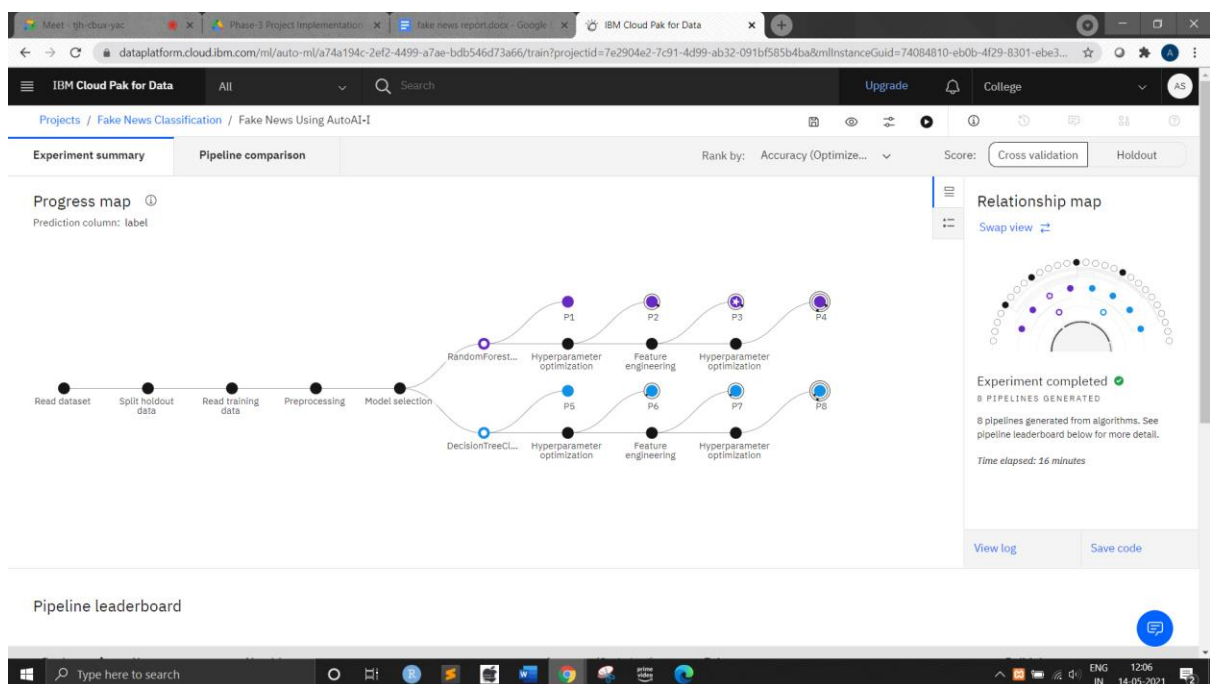
12. Fill in the details required as per your convenience. Here I filled label in What do you want to predict? as we have label to be predicted. Change the Experiment settings if you want and After that click on Run experiment.



13. This will start running the experiment. It will take 10-20 minutes to complete successfully.



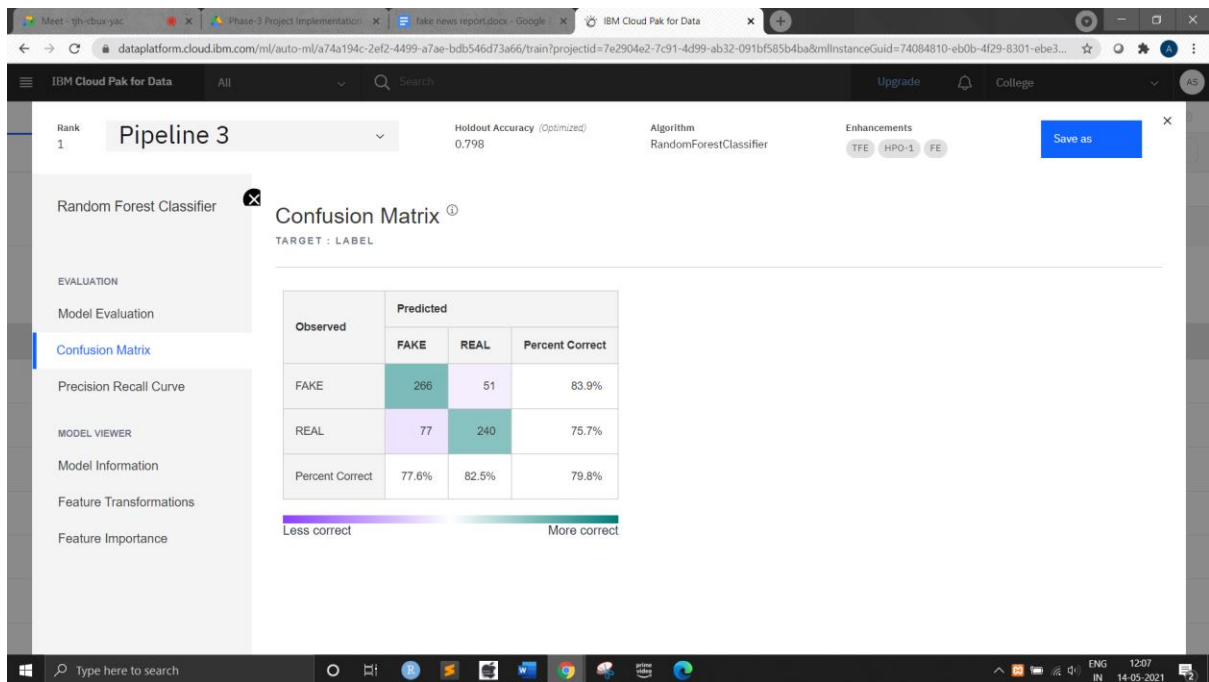
14. The Experiment is now completed and the best pipeline result is displayed in the Pipeline Leaderboard.





15. Clicking on Pipeline 3 will display this. Just simply see all the results and then click on Save as button present in the top-right corner of the page.

16. This is the Confusion Matrix. Click on Save as button present in the top-right corner of the page.



17. Enter all the Define details here and click on Create.

Save as

Select asset type

Model

Create a Watson Machine Learning model asset that you can test with new data, deploy to generate predictions, and trace lineage activity.

Define details

Name

Fake News Using AutoAI-1 - P3 RandomForestClassifier

Description (optional)

Enter description here

Tags

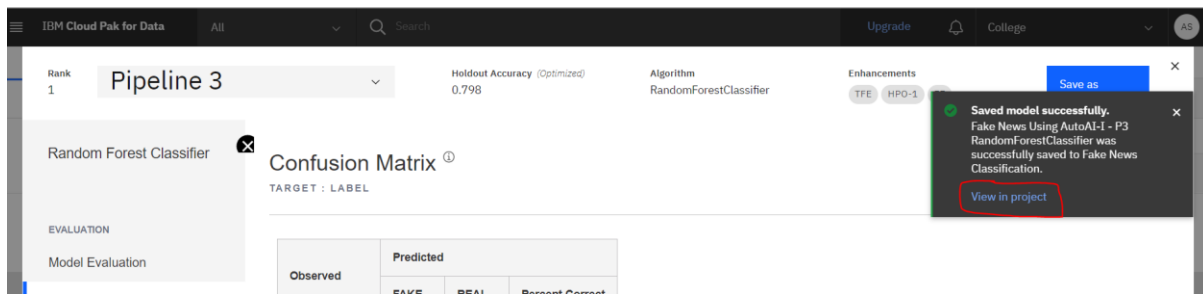
Add tags to make assets easier to find.

Add a tag

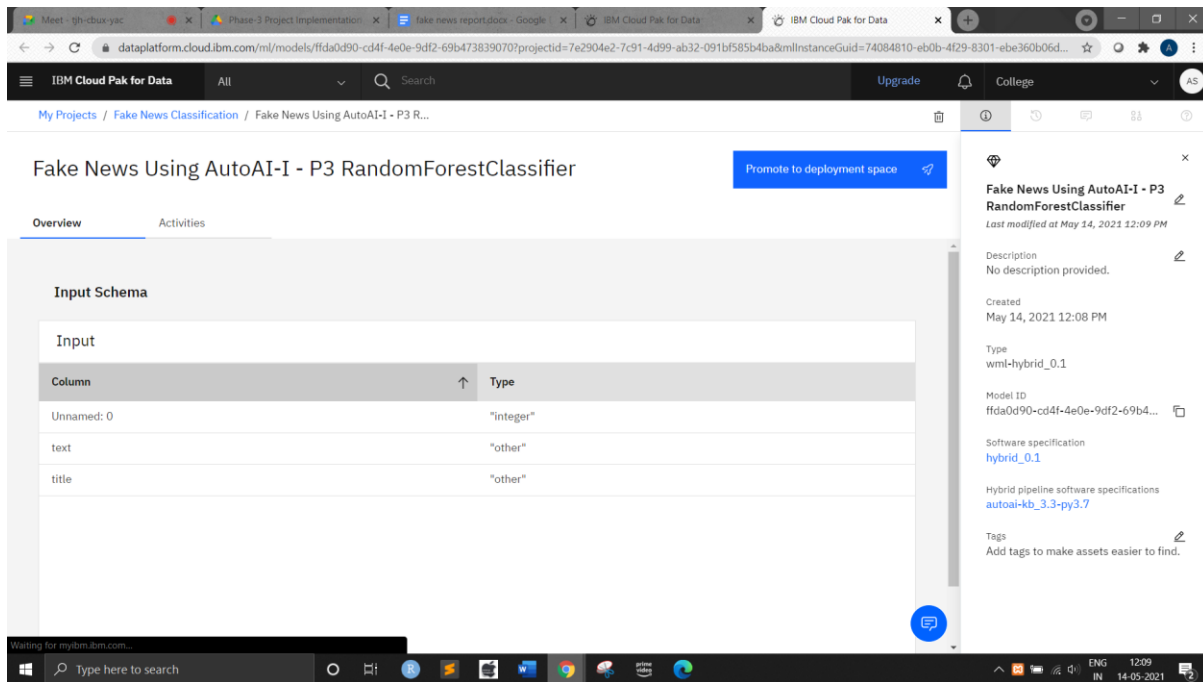
Cancel Create

18. Click on View in project.

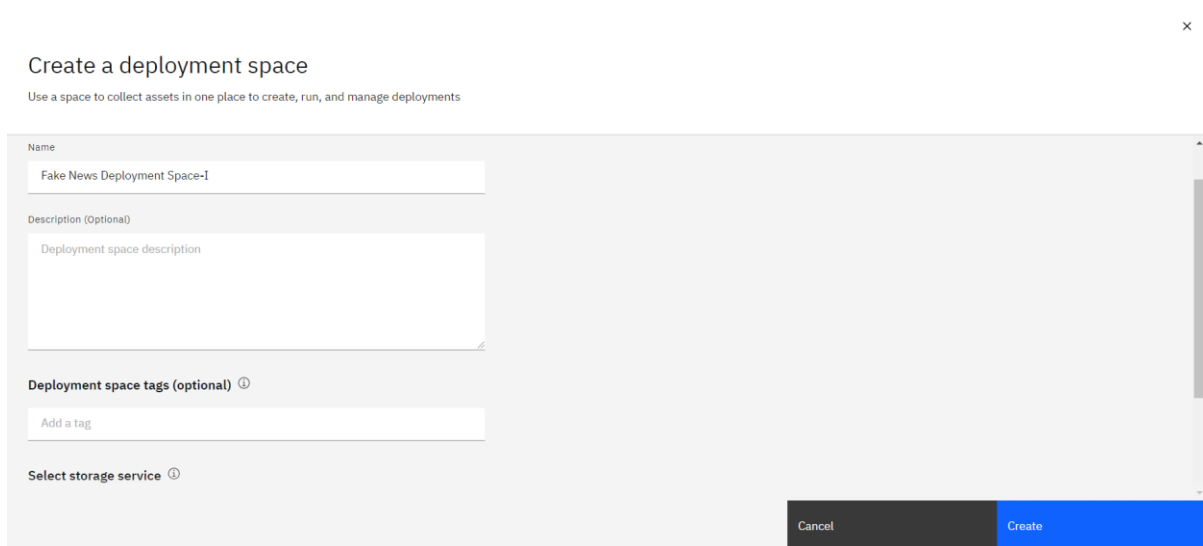




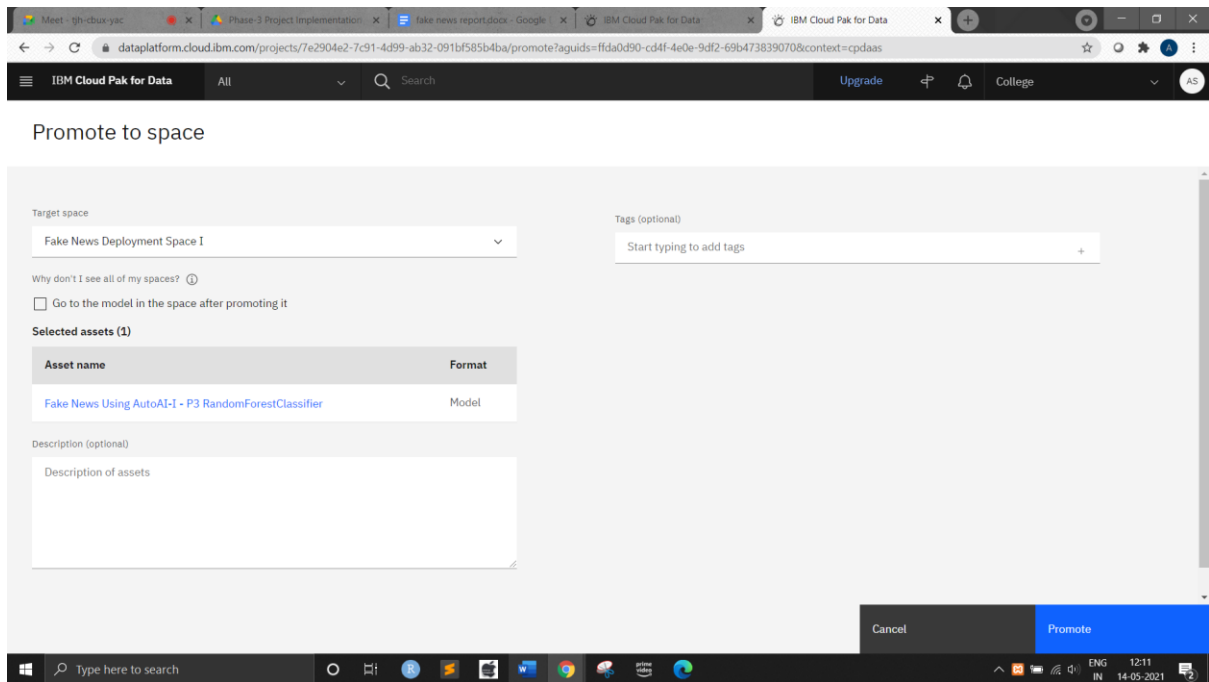
19. Click on Promote to deployment space.



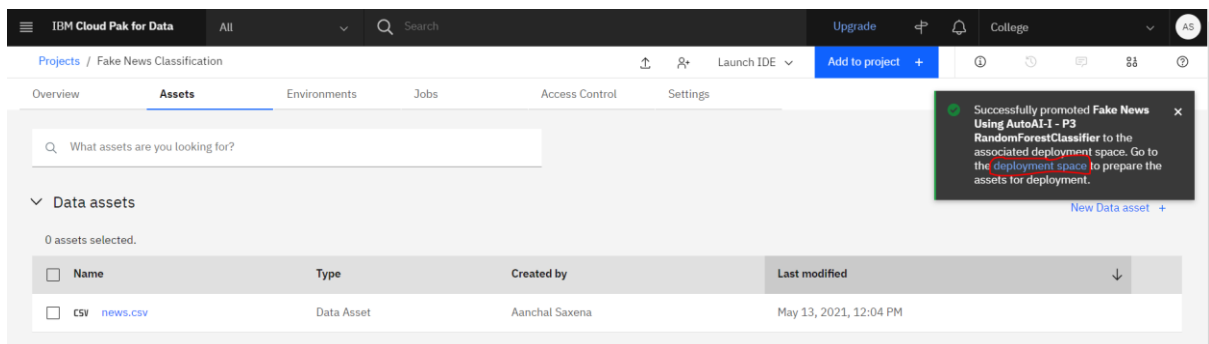
20. Create a deployment space and select storage service of CloudObjectStorage and WatsonMachineLearning space.



21. Now click on Promote button present at bottom-right corner.



22. Once done, a pop-up will be displayed and simply click on deployment space.



## 23. Click on the Model.

IBM Cloud Pak for Data

Deployments / Fake News Deployment Space I

Add to space +

### Fake News Deployment Space I

Assets Deployments Jobs Manage

What assets are you looking for?

Models (1) Import model +

| Name  | Type           | Software specification | Tags | Last modified         |
|---|----------------|------------------------|------|-----------------------|
| <a href="#">Fake News Using AutoAI-I - P3 RandomForestClassifi...</a> | wml-hybrid_0.1 | hybrid_0.1             |      | May 14, 2021 12:11 PM |

Drop files here or browse for files to upload.

Stay on the page until upload completes. Incomplete uploads are cancelled.

## 24. Click on Create deployment.

IBM Cloud Pak for Data

Deployments / Fake News Deployment Space I / Fake News Using AutoAI-I - P3 R...

Create deployment +

### Fake News Using AutoAI-I - P3 RandomForestClassifier

Deployments Schema

You don't have any deployments yet  
Create your first deployment for this model. [Learn more](#)

**Fake News Using AutoAI-I - P3 RandomForestClassifier**  
Last modified at May 14, 2021 12:13 PM

Created  
May 14, 2021 12:11 PM

Type  
wml-hybrid\_0.1

Model ID  
1dae5286-3614-40db-a081-3203f3321bb8

Software specification  
hybrid\_0.1

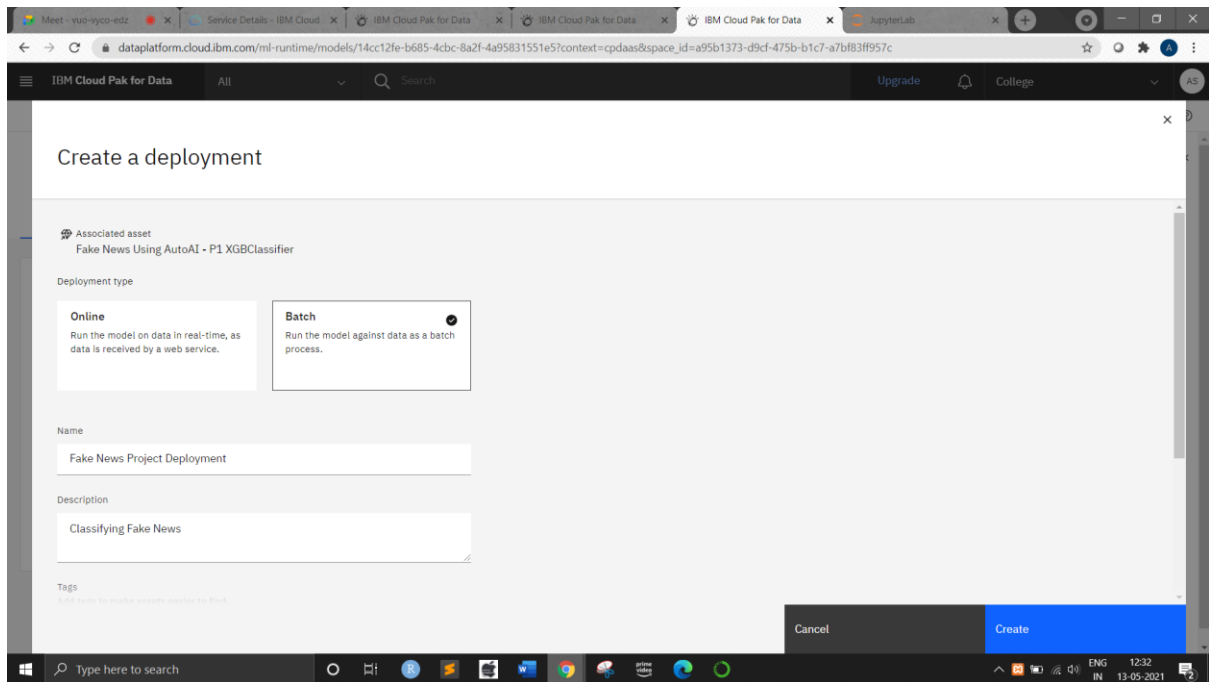
Hybrid pipeline software specifications  
autoai-kb\_3.3-py3.7

Description  
No description provided.

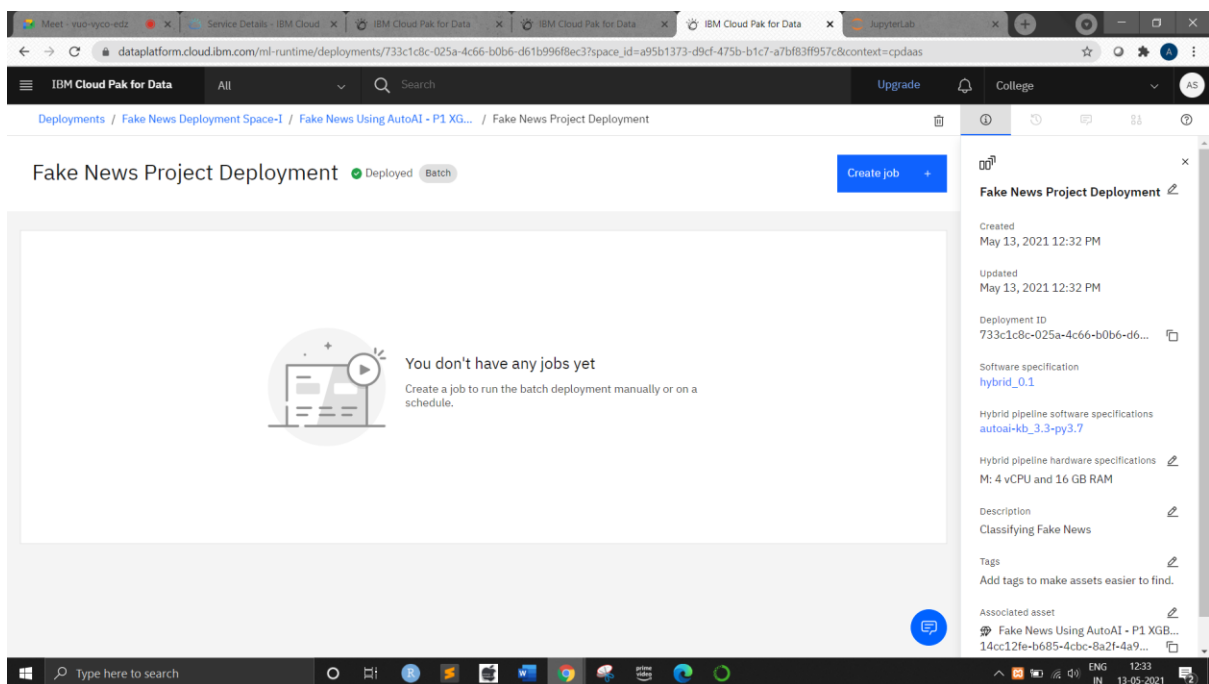
Tags  
Add tags to make assets easier to find.

Source asset details

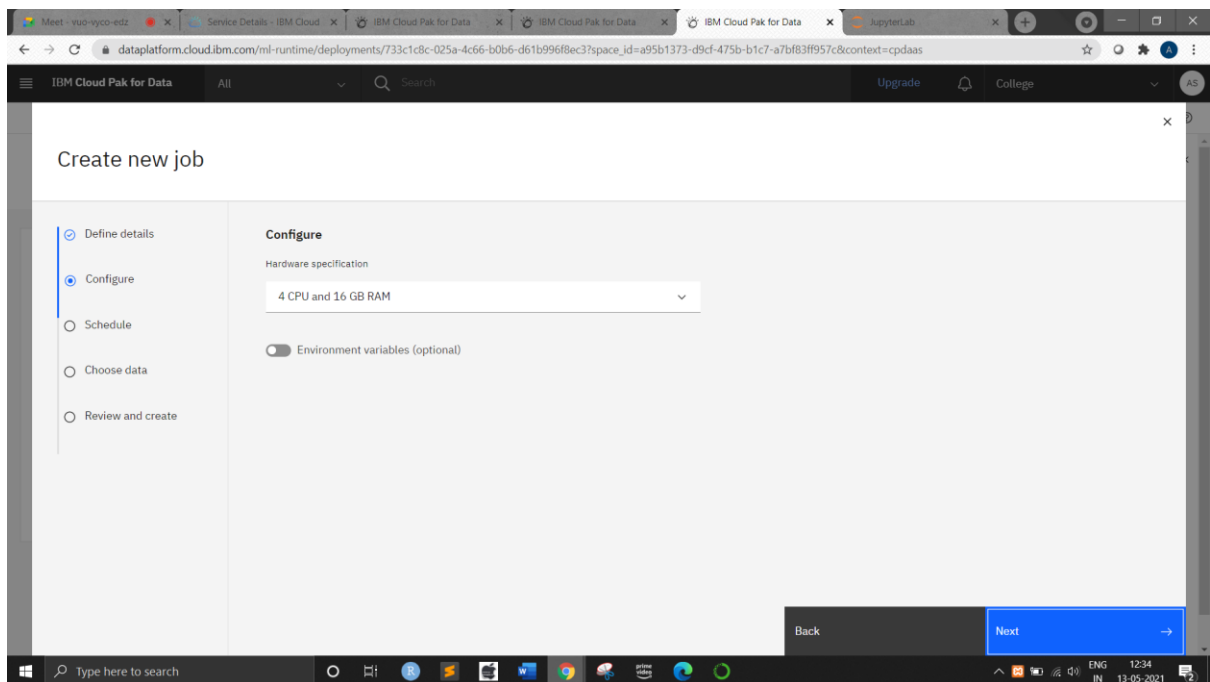
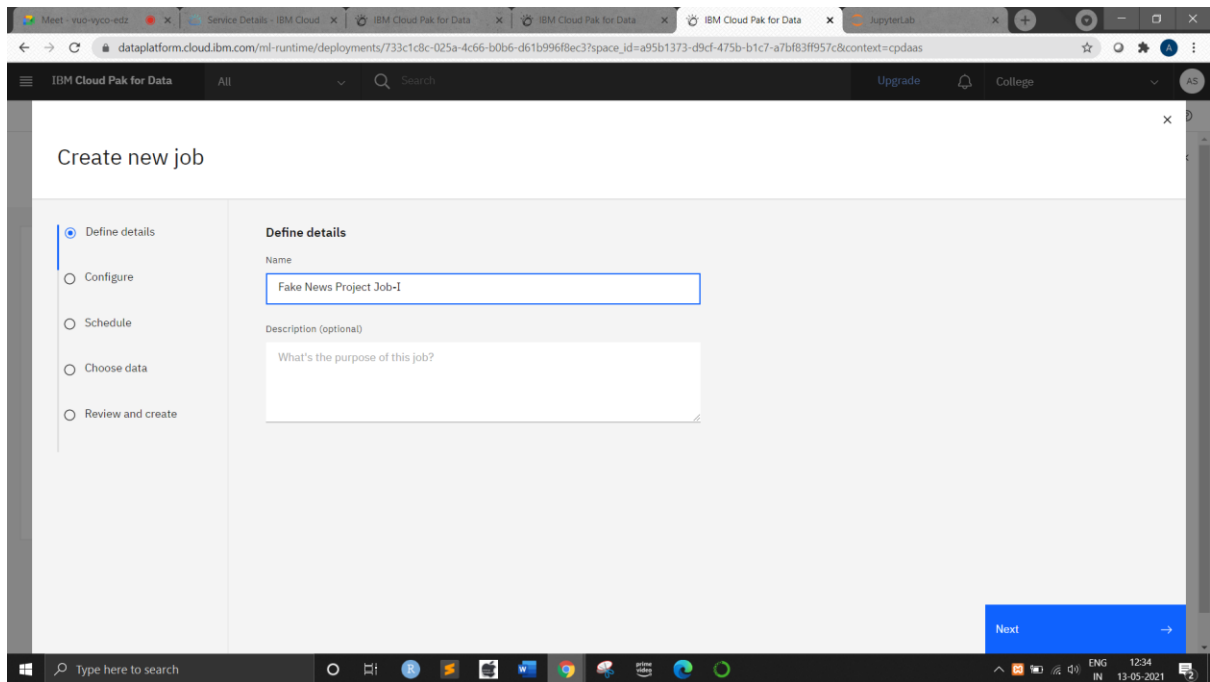
## 25. Fill in the Details given and click on Create.

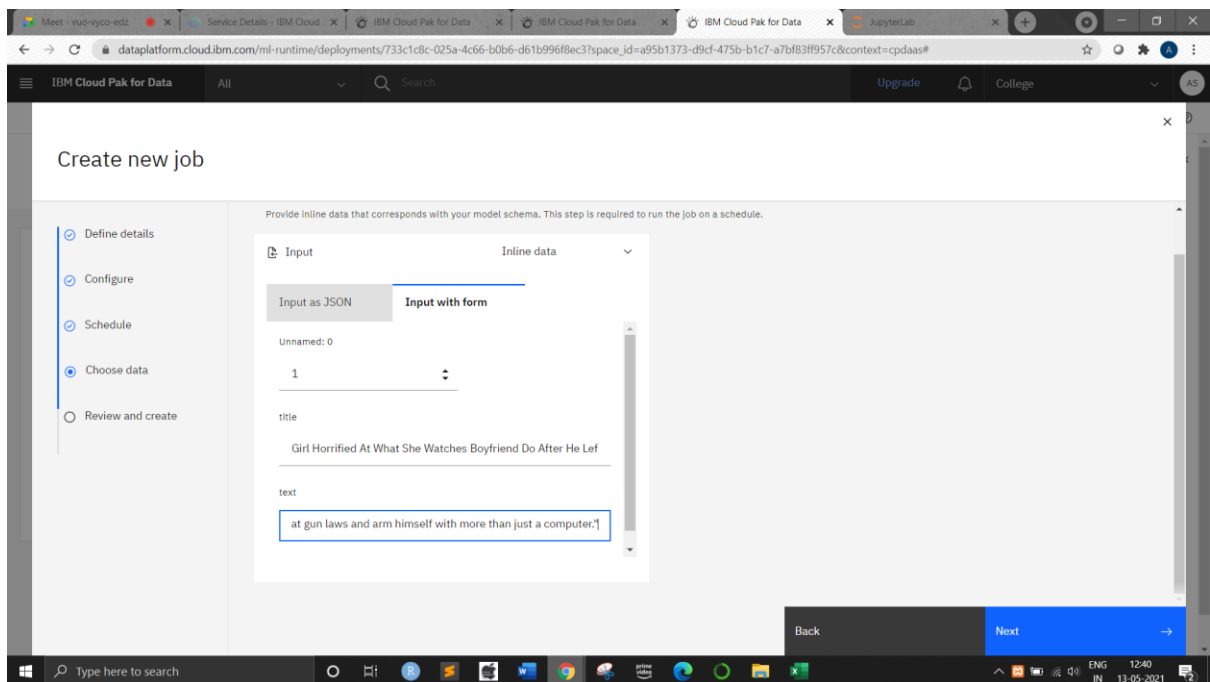
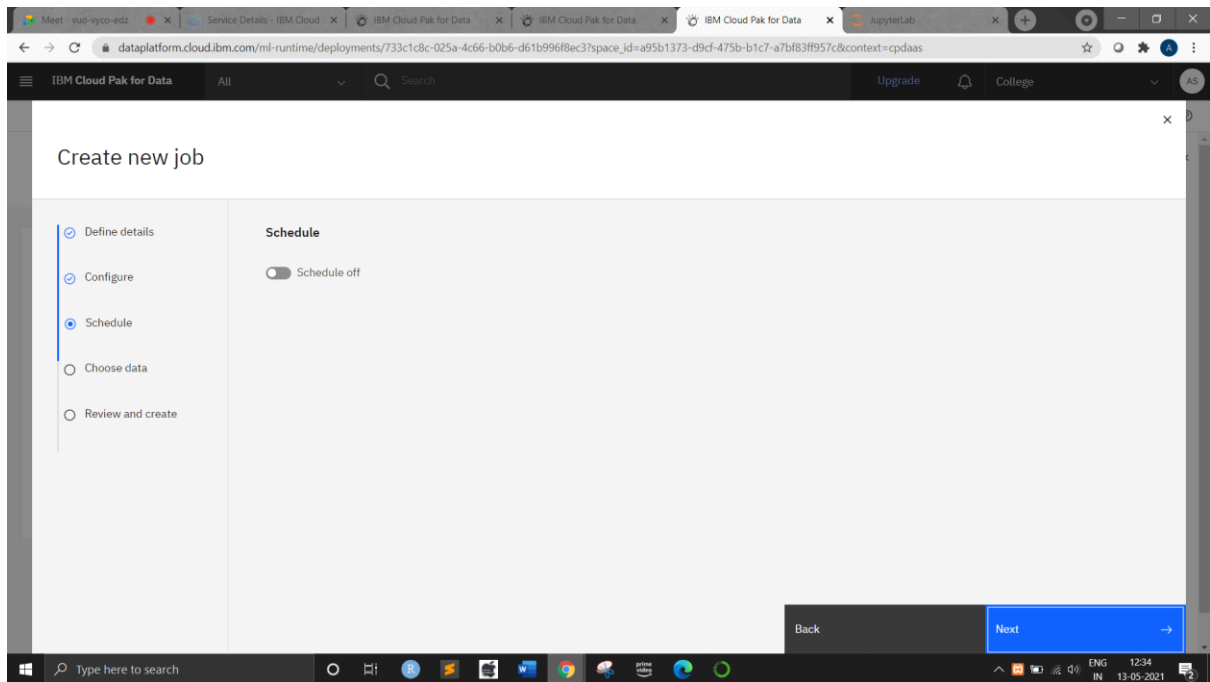


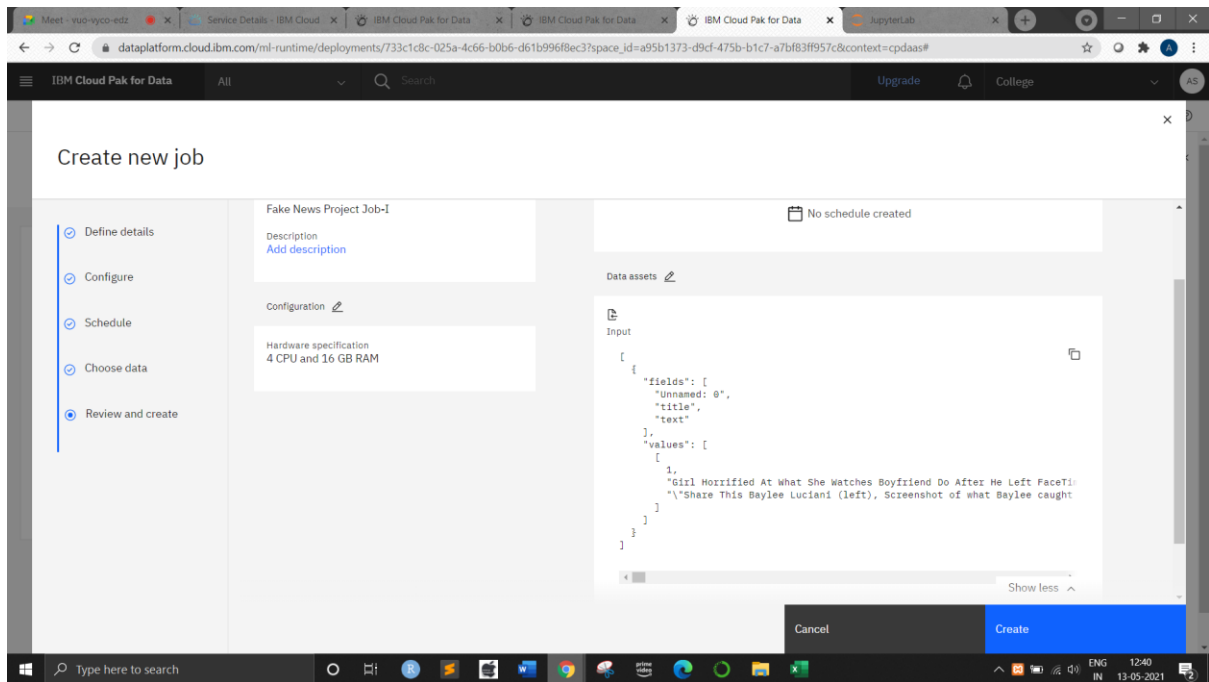
26. The model is deployed. Now we need to create a job by clicking on Create Job button present in the top-right corner of the page.



27. Fill all the details in the below pages displayed.

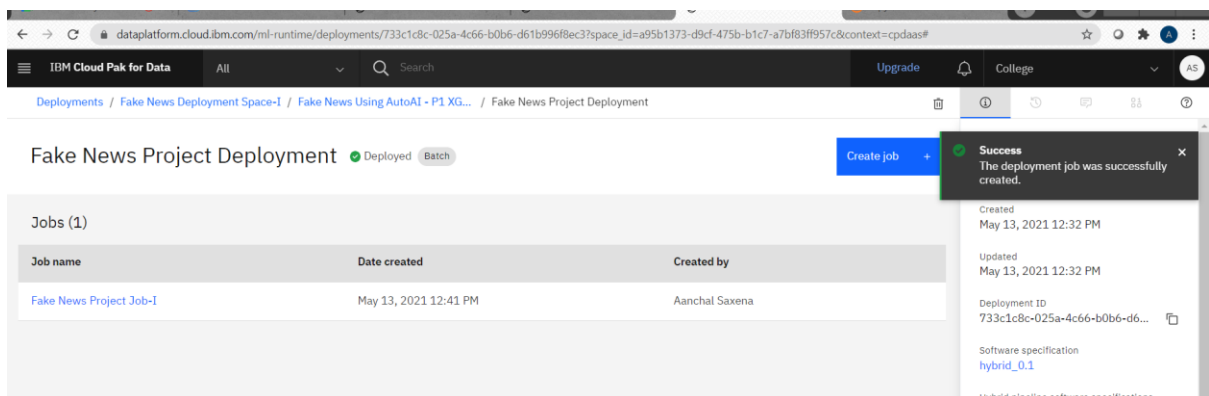






28. Simply click on Create.

29. Once done, the pop-up will be displayed. Just click on the job created.





30. The job is successfully created and run. Click on the link present in the Runs table.

**Fake News Project Job-I**

Associated Asset: Fake News Project Deployment

Deployment Job Definition ID: 424cab5a-bd99-4885-9c06-fb3d7666fb9f

Job ID: 4a82fc16-dd85-4241-9896-f9e35cc5059a

**Scheduled to run**: No schedule created

**Environment definition**: 4 CPU and 16 GB RAM

**Input**: {"input\_data": [{"file...}]}

**Output**: No output asset for inline input data

**Runs (1)**

| Start Time            | Status    | Duration  | Started By     |
|-----------------------|-----------|-----------|----------------|
| May 13, 2021 12:41 PM | Completed | 6 seconds | Aanchal Saxena |

31. This is the Job run detail and here we input the values which is displayed in values Json form and prediction is given just below it which predicted that given input news is 99.99 % Fake and 0.001 % Real. Hence, our model is successfully implemented.

**May 13, 2021 12:41:18 PM**

**About this run**

Completed

Run details

Duration (seconds): 6

Started by: Aanchal Saxena

Associated job: Fake News Project Job-I

Deployment Job ID: 424cab5a-bd99-4885-9c06-fb3d7666fb9f

Job Run ID: 69fadaf6-28f4-4da4-af4a-3746ea9ce2b2

```
{
  "scoring": {
    "input_data": [
      {
        "fields": [
          "Unnamed: 0",
          "title",
          "text"
        ],
        "values": [
          [
            1,
            "Girl Horrified At What She Watches Boyfriend Do After He Left FaceTime On",
            "\\Share This Baylee Luciani (Left), Screenshot of what Baylee caught on FaceTime (right) The closest Bay"
          ]
        ]
      }
    ],
    "predictions": [
      {
        "fields": [
          "prediction",
          "probability"
        ],
        "values": [
          [
            "FAKE",
            0.9999483856144714,
            0.00005161438552858585
          ]
        ]
      }
    ]
  },
  "status": {
    "completed_at": "2021-05-13T12:41:18.000Z"
  }
}
```

32. This is the log that was displayed there.

```
{
  "deployment": {
    "id": "733c1c8c-025a-4c66-b0b6-d61b996f8ec3"
  },
  "platform_job": {
```

```

"job_id": "4a82fc16-dd85-4241-9896-f9e35cc5059a",
"run_id": "69fadaf6-28f4-4da4-af4a-3746ea9ce2b2"
},
"scoring": {
  "input_data": [
    {
      "fields": [
        "Unnamed: 0",
        "title",
        "text"
      ],
      "values": [
        1,
        "Girl Horrified At What She Watches Boyfriend Do After He Left FaceTime On",
        "\"Share This Baylee Luciani (left), Screenshot of what Baylee caught on FaceTime (right) The closest Baylee Luciani could get to her boyfriend, whoâ€™s attending college in Austin, was through video online chat. The couple had regular â€œdatesâ€• this way to bridge the 200-mile distance between them. However, the endearing arrangement quickly came to an end after his FaceTime was left on and caught something that left his girlfriend horrified. Baylee had been discussing regular things with her boyfriend, Yale Gerstein, who was on the other side of the screen on an otherwise average evening. This video chat was not unlike all the others she had with Yale from his apartment near Austin Community College until the 19-year-old girlfriend heard some scratching sounds after FaceTime had been left on. According to KRON , Baylee was mid-conversation with Yale when scratches at the door caught both of their attention and he got up from his bed, where the computer was, to see who was at his door. He barely turned the handle to open in when masked men entered the room and beat Yaleâ€™s face in and slammed him down on his bed while shoving a pistol in his cheek. The intruders didnâ€™t seem to know or care that FaceTime was still on and Bayleeâ€™s face, seen in the corner, was watching everything, terrified that she was about to see her boyfriend murdered in front of her, as she watched him fight for his life. Admitting that she first thought it was a joke, seconds later, she came to the horrid realization that he was being robbed and called her dad, who was at home with her in Dallas, into the room. â€œI was scared, because they were saying Iâ€™m going to blow your head off, Iâ€™m going to kill you,â€• Baylee explained along with the chilling feeling she got when the intruder finally realized the video chat was running and looked right at her in the camera. â€œIâ€™m like wowâ€¦ seriously watching an armed robbery happen to somebody that I care about,â€• she added. Screenshot of intruder forcing Yale down on his bed while Baylee and her father watch on FaceTime in horror With a clear view of at least one intruderâ€™s face, Baylee began taking screenshots of the suspect in the act as she and her dad called the police to report what was going on. She got the pictures right in time since, seconds later, the intruder decided to disconnect the computer as he and the suspects took off with thousands of dollars worth of Yaleâ€™s music equipment. Although the boyfriendâ€™s life was spared in the traumatizing ordeal for the two of them, he said that the thieves took something from him that canâ€™t be replaced. â€œI had just finished my first album as a solo artist,â€• Yale said. â€œThatâ€™s all lost,â€• since they took the recordings on the equipment, which means nothing to the thieves and everything to the victim. Itâ€™s not often that you hear of FaceTime solving crimes or potentially saving lives, which is what happened in this case. Although it was difficult to watch, Baylee, being there through technology, was an instrumental part in protecting Yale, who hopefully learned that he better

```

take advantage of Texas's great gun laws and arm himself with more than just a computer.\""

```
    ]
  ]
}
],
"predictions": [
  {
    "fields": [
      "prediction",
      "probability"
    ],
    "values": [
      [
        "FAKE",
        [
          0.9990403056144714,
          0.0009596696472726762
        ]
      ]
    ]
  }
],
"status": {
  "completed_at": "2021-05-13T07:11:46.269Z",
  "running_at": "2021-05-13T07:11:41.328Z",
  "state": "completed"
}
}
```