

ipl\_pred\_model.ipynb - Colab

Data Refinery Analysis Tips

gui.ipynb - Colab

IBM Cloud

Service Details - IBM Cloud

deliveries.csv\_flow — ipl\_pre

au-syd.dai.cloud.ibm.com/shaper?project\_id=84398ead-b0bb-4d1b-a816-372f8477909f&flow\_id=a5a32758-8045-4818-a0f9-6b7a06af4469&context=cpdaas

IBM watsonx.ai Studio

Search in your workspaces

Upgrade

Mansi Sengar's Account

Sydney

MS

Projects / ipl\_prediction / deliveries.csv\_flow

Steps (2)

Data source

deliveries.csv

1. Convert column type

Automatically converted one or more columns to inferred data types. Strings that are converted to decimal use a dot (.) for the decimal symbol.

2. Aggregate

Aggregated the values of total\_runs into total\_run\_sum grouping by match\_id, batting\_team

Just added

Use a code template to add a step

Data

Profile

Visualizations

	match_id	batting_team	total_run_sum
	Integer	String	Integer
1	1	Royal Challengers B...	172
2	1	Sunrisers Hyderabad	207
3	2	Mumbai Indians	184
4	2	Rising Pune Supergi...	187
5	3	Gujarat Lions	183
6	3	Kolkata Knight Riders	184
7	4	Kings XI Punjab	164
8	4	Rising Pune Supergi...	163
9	5	Delhi Daredevils	142
10	5	Royal Challengers B...	157
11	6	Gujarat Lions	135
12	6	Sunrisers Hyderabad	140
13	7	Kolkata Knight Riders	178
14	7	Mumbai Indians	180
15	8	Kings XI Punjab	150
16	8	Royal Challengers B...	148
17	9	Delhi Daredevils	205
18	9	Rising Pune Supergi...	108
19	10	Mumbai Indians	159
20	10	Sunrisers Hyderabad	158
21	11	Kings XI Punjab	170

New step

About this asset

Name

deliveries.csv\_flow

Data Refinery flow

Description

What is the purpose of this Data Refinery flow?

Asset details

Steps: 2

Associated assets

Source: deliveries.csv

Target: deliveries\_csv\_shaped

Last modified

Wed, Jul 09, 2025, 11:06 PM

Mansi Sengar

Created on

Wed, Jul 09, 2025, 10:44 PM

Mansi Sengar

Sample data set: 7489 rows, 21 columns

https://au-syd.dai.cloud.ibm.com/shaper?project\_id=84398ead-b0bb-4d1b-a816-372f8477909f&flow\_id=a5a32758-8045-4818-a0f9-6b7a06af4469&context=cpdaas#

Projects / ipl\_prediction / matches.csv

Preview asset

Visualization

Feature group  $\beta$

### SCATTER PLOT CHART

X-axis\* id

Y-axis\* winner

Color map ① None

Size map ① None

Shape map ① None

Fit line ① None

Gradient Bubble ① Off

Bubble Size ① 12

Show Reference Line ① Off

Show label ① Off

### CHART TYPE

Suggested charts

Scatter pl...

Line

Multi-seri...

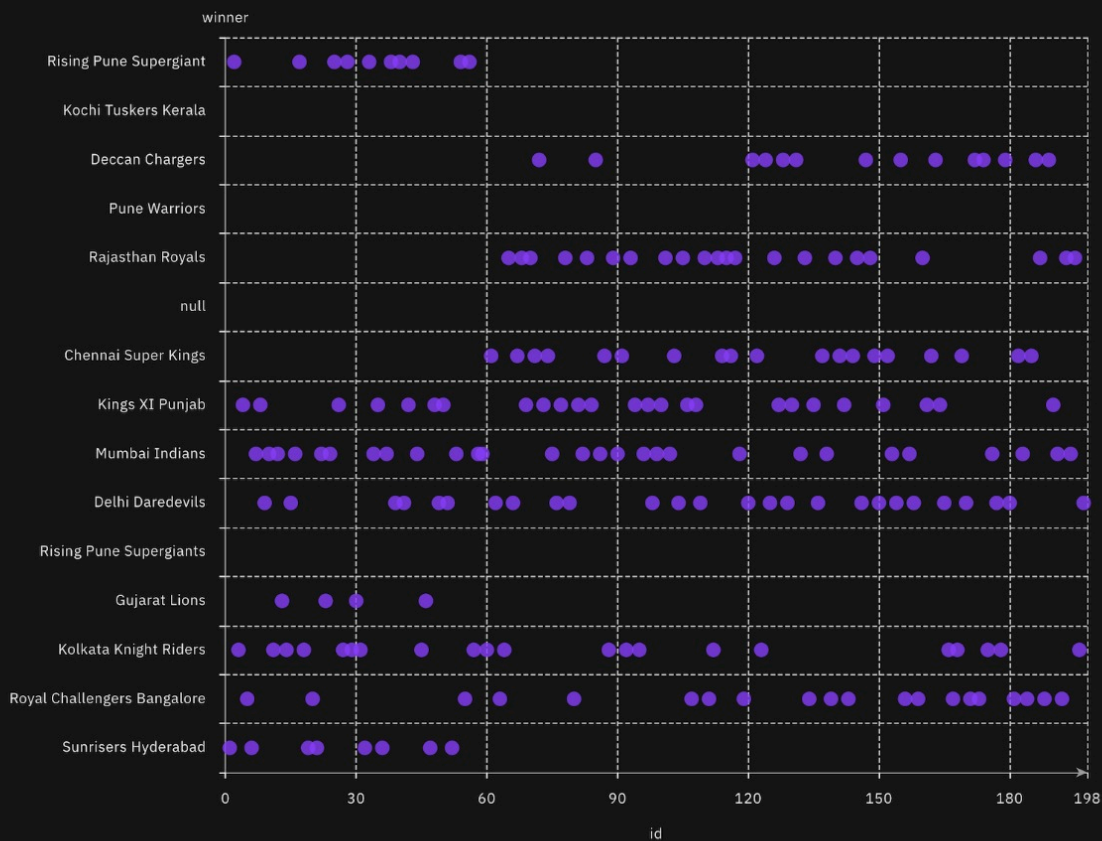
Populatio...

Pie

Bar

Pareto

ACTIONS



Relationship map ⓘ  
Prediction column: winner

Progress map  
[Swap view](#)

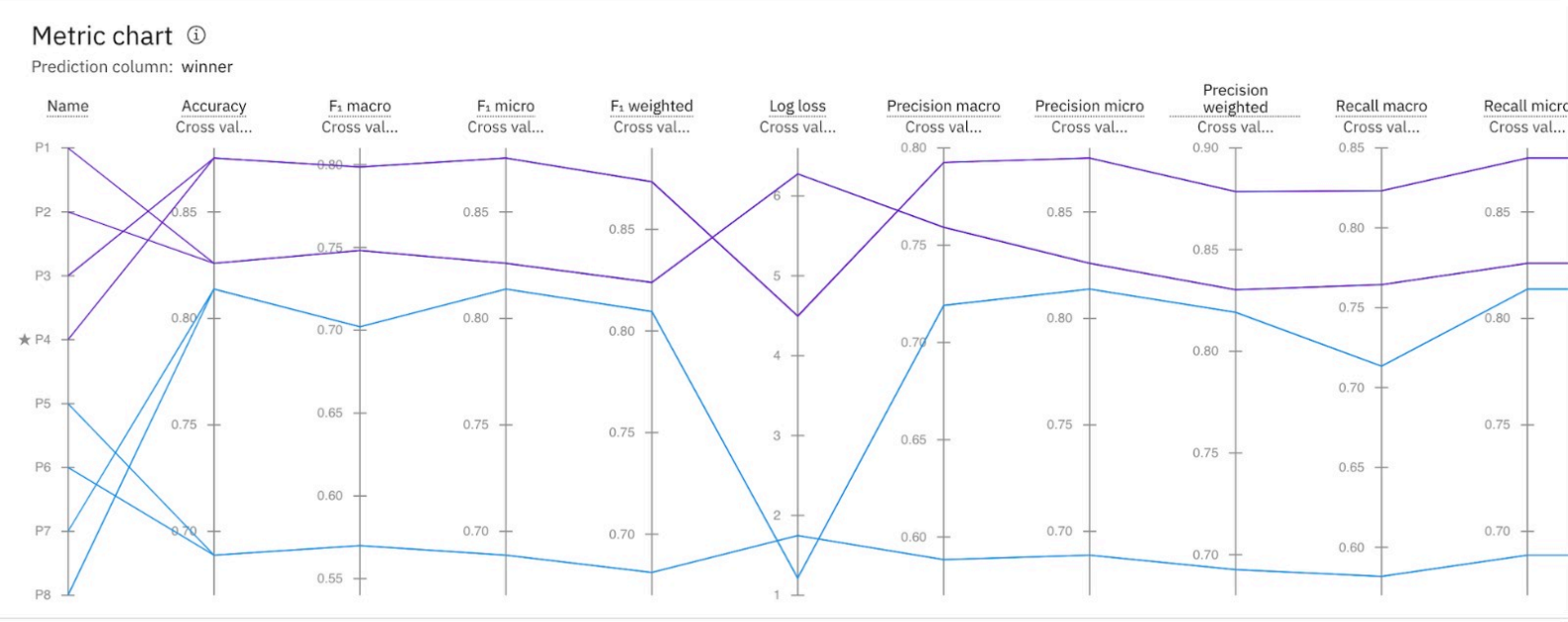
Experiment completed 🟢  
8 PIPELINES GENERATED  
8 pipelines generated from algorithms. See pipeline leaderboard below for more detail.  
Time elapsed: 3 minutes

[View log](#)

[Save code](#)

Pipeline leaderboard ▾

	Rank	↑	Name	Algorithm	Accuracy (Optimized) Cross Validation	Enhancements	Build time
★	1		Pipeline 4	🟡 Snap Decision Tree Classifier	0.875	HPO-1 FE HPO-2	00:00:38
	2		Pipeline 3	🟡 Snap Decision Tree Classifier	0.875	HPO-1 FE	00:00:32
	3		Pipeline 2	🟡 Snap Decision Tree Classifier	0.826	HPO-1	00:00:05



### Pipeline leaderboard

Rank	↑	Name	Algorithm	Accuracy (Optimized) Cross Validation	Enhancements	Build time
★	1	Pipeline 4	● Snap Decision Tree Classifier	0.875	HPO-1 FE HPO-2	00:00:38

IBM watsonx.ai Studio

Deployment spaces / ipl\_space / P4 - Snap Decision Tree Classifier: ipl\_match /

ipl\_winner\_pred Deployed Online

API reference

Test

Private endpoint

Public endpoint

Learn more about the 2021-05-01 version query parameter

Code snippets

cURL

Java

JavaScript

Python

Scala

# NOTE: you must set \$API\_KEY below using information retrieved from your IBM Cloud account (http

export API\_KEY=<your API key>

export IAM\_TOKEN=\$(curl --insecure -X POST --location "https://iam.cloud.ibm.com/identity/token" \

--header "Content-Type: application/x-www-form-urlencoded" \

--header "Accept: application/json" \

--data-urlencode "grant\_type=urn:ibm:params:oauth:grant-type:apikey" \

--data-urlencode "apikey=\$API\_KEY" | jq -r '.access\_token')

# TODO: manually define and pass values to be scored below

curl --location "https://private.au-syd.ml.cloud.ibm.com/ml/v4/deployments/15cf68e8-da86-40cc-95be-5626f522db7c?space\_id=9a5c788c-7ad4-40c7-a0b2-...

--header "Content-Type: application/json" \

--header "Accept: application/json" \

Show more

About this deployment

Name

ipl\_winner\_pred

Description

No description provided.

Deployment Details

Deployment ID: 15cf68e8-da86-40...

Serving name:

No serving name.

Software specification:

hybrid\_0.1

Hybrid pipeline software specifications:

autoai-kb\_rt24.1-py3.11

Copies:

1

Tags

Add tags to make assets easier to find.

Associated asset

P4 - Snap Decision Tree Classifier: ipl\_m...

cd47224e-10d5-42bf-9451-b7e3699bb7ae

Last modified

2 hours ago

Created on

Jul 10, 2025

Customise Chrome

## Prediction results

Close

✕

Prediction type

### Multiclass classification

Prediction percentage



Confidence level distribution

Display format for prediction results

☒ Table view ☐ JSON view☐ Show input data ⓘ

	Prediction	Confidence
1	Sunrisers Hyderabad	100%
2	Rising Pune Supergiant	100%
3	Kolkata Knight Riders	100%
4	Chennai Super Kings	100%
5	Rajasthan Royals	100%
6	Royal Challengers Bangalore	100%
7		
8		
9		
10		
11		
12		
13		

[Download JSON file](#)

EXPLORER

GUI

app.pyU

gui.py

LICENSE

model.pkl

README.md

requirements.txt

gui.py

```
1 import tkinter as tk
2 from tkinter import ttk, messagebox
3 import requests
4 import json
5
6 # Replace with your actual API key and endpoint
7 API_KEY = "Xe_Q8Zfpuat56xiICkmGpxYpeCAhspN7m5xjA1GsQ4d0"
8 DEPLOYMENT_URL = "https://au-syd.ml.cloud.ibm.com/ml/v4/deployments/15cf68e8-da86-40cc-95be-5626f522db7c/predictions?version=2021-05-01"
9 def get_token():
10     response = requests.post(
11         'https://iam.cloud.ibm.com/identity/token',
12         data={"apikey": API_KEY, "grant_type": 'urn:ibm:params:oauth:grant-type:apikey'})
13     return response.json().get("access_token")
14
15 def predict():
16     try:
17         values = [
18             int(entry_id.get()),
19             int(entry_season.get()),
20             entry_city.get(),
21             entry_date.get(),
22             entry_team1.get(),
23             entry_team2.get(),
24             entry_toss_winner.get(),
25             entry_toss_decision.get(),
26             entry_result.get(),
27             int(entry_win_by_runs.get()),
28             int(entry_win_by_wickets.get()),
29             entry_player_of_match.get(),
30             entry_venue.get()
31         ]
32
33         payload = {
34             "input_data": [
35                 {
36                     "fields": [
37                         "id", "season", "city", "date", "team1", "team2",
38                         "toss_winner", "toss_decision", "result",
39                         "win_by_runs", "win_by_wickets", "player_of_match", "venue"
40                     ],
41                     "values": [values]
42                 }
43             ]
44         }
45
46         token = get_token()
47         headers = {
48             'Content-Type': 'application/json',
49             'Authorization': 'Bearer ' + token
50         }
51     
```

Ln 90, Col 1

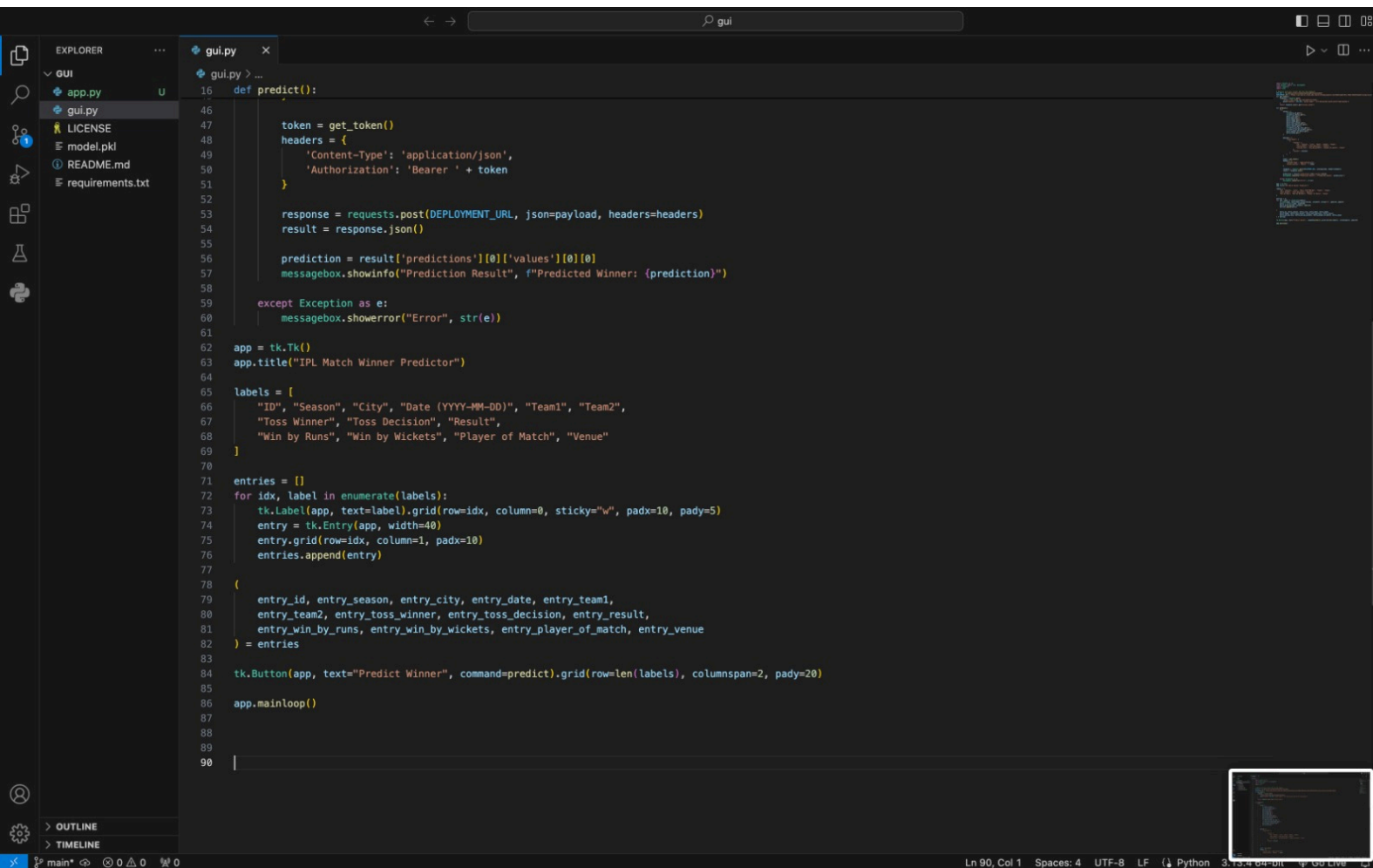
Spaces: 4

UTF-8

LF

Python 3.13.4 64-bit

Go Live





Code File Edit Selection View Go Run Terminal Window Help

### IPL Match Winner Predictor

ID

Season

City

Date (YYYY-MM-DD)

Team1

Team2

Toss Winner

Toss Decision

Result

Win by Runs

Win by Wickets

Player of Match

Venue

EXPLORER

- GUI
  - app.py
  - gui.py
  - LICENSE
  - model.pkl
  - README.md
  - requirements.txt

gui.py

```
1 import tkinter as tk
2 from tkinter import ttk, messagebox
3 import requests
4 import json
5
6 # Replace with your actual API key and endpoint
7 API_KEY = "Xe_Q8ZfpuatSGxiICkmGpxYpeCAhspN7m5xjA1GsQ4d0"
8 DEPLOYMENT_URL = "https://au-syd.ml.cloud.ibm.com/ml/v4/deployments/15c"
9
10 def get_token():
11     response = requests.post(
12         'https://iam.cloud.ibm.com/identity/token',
13         data={"apikey": API_KEY, "grant_type": 'urn:ibm:params:oauth:grant-type:apikey'}
14     )
15     return response.json().get("access_token")
16
17 def predict():
18     try:
19         values = [
20             int(entry_id.get()),
21             int(entry_season.get()),
22             entry_city.get(),
23             entry_date.get(),
24             entry_team1.get(),
25             entry_team2.get(),
26             entry_toss_winner.get(),
27             entry_toss_decision.get(),
28             entry_result.get(),
29             entry_win_by_runs.get(),
30             entry_win_by_wickets.get(),
31             entry_player_of_match.get(),
32             entry_venue.get()
33         ]
34         headers = {"Authorization": "Bearer " + get_token()}
35         response = requests.post(DEPLOYMENT_URL, headers=headers, json=values)
36         prediction = response.json().get("prediction")
37         messagebox.showinfo("Prediction", prediction)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

Python + Python 3.13.4 64-bit Go Live

main\* 0 0 0 0

Catalog /

# watsonx.ai Studio

(Formerly known as Watson Studio) Develop powerful AI solutions with an integrated collaborative studio and industry-standard APIs and SDKs.



CreateAbout

Type  
Service

Select a location

Provider  
IBM

Sydney (au-syd)

Last updated  
05/06/2025

Select a pricing plan

Prices shown are for country or location: [United States](#)

Category  
AI / Machine Learning

Compliance  
HIPAA Enabled  
IAM-enabled

Location  
Sydney (au-syd)  
Frankfurt (eu-de)  
London (eu-gb)  
Tokyo (jp-tok)  
Dallas (us-south)  
Toronto (ca-tor)

Related links  
[Docs](#)

Plan	Features and capabilities	Pricing
Lite	<b>1 authorized user</b> 10 capacity unit-hours monthly limit Environment = # of capacity units required per hour <ul style="list-style-type: none"><li>1 vCPU + 4 GB RAM = 0.5</li><li>2 vCPU + 8 GB RAM = 1</li><li>4 vCPU + 16 GB RAM = 2</li></ul> • Decision Optimization + Watson NLP = Environment + 5 • Synthetic Data Generator, 2 vCPU + 8 GB RAM = 7 (requires watsonx.ai Runtime)	Free

## Summary

**watsonx.ai Studio** Free

Location: Sydney (au-syd)  
Plan: Lite  
Service name: watsonx.ai Studio-v9  
Resource group: Default

!

**Existing Lite plan instance**  
You can have only 1 Lite plan instance of this service per resource group. [Delete](#) your current Lite plan instance in Default resource group to create a new one, or [view the existing instance](#).

X

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[Terms](#)

Create

Add to estimate