

What is Colab?

Colab, or "Colaboratory", allows you to write and execute Python in your browser, with

- Zero configuration required
- Access to GPUs free of charge
- Easy sharing

Whether you're a **student**, a **data scientist** or an **AI researcher**, Colab can make your work easier. Watch [Introduction to Colab](#) or [Colab Features You May Have Missed](#) to learn more, or just get started below!

✓ Getting started

The document you are reading is not a static web page, but an interactive environment called a **Colab notebook** that lets you write and execute code.

For example, here is a **code cell** with a short Python script that computes a value, stores it in a variable, and prints the result:

```
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
from sklearn.model_selection import train_test_split
from sklearn.ensemble import RandomForestClassifier
from sklearn.metrics import accuracy_score
```

```
df = pd.read_csv("/archive (7).zip")
```

```
from google.colab import drive
drive.mount('/content/drive')
```

Mounted at /content/drive

```
print("Shape of dataset:", df.shape)
```

```
➡ Shape of dataset: (48, 44)
```

```
print(df.head())
```

```
➡
```

	Match ID	Match Date	Match Time	City	Stadium
0	1	05-10-2023	2:00 PM	Ahmedabad	Narendra Modi Stadium
1	2	06-10-2023	2:00 PM	Hyderabad	Eden Gardens
2	3	07-10-2023	2:00 PM	Dharamshala	HPCA Stadium
3	4	07-10-2023	2:00 PM	Delhi	Arun Jaitley Stadium
4	5	08-10-2023	2:00 PM	Chennai	M. A. Chidambaram Stadium

	Team A	Team B	Toss Winner	Toss Decision	Score A	...
0	England	NewZealand	NewZealand	Field	282	...
1	Pakistan	Netherlands	Netherlands	Field	286	...
2	Afghanistan	Bangladesh	Bangladesh	Field	156	...
3	South Africa	Sri Lanka	Sri Lanka	Field	428	...
4	Australia	India	Australia	Bat	199	...

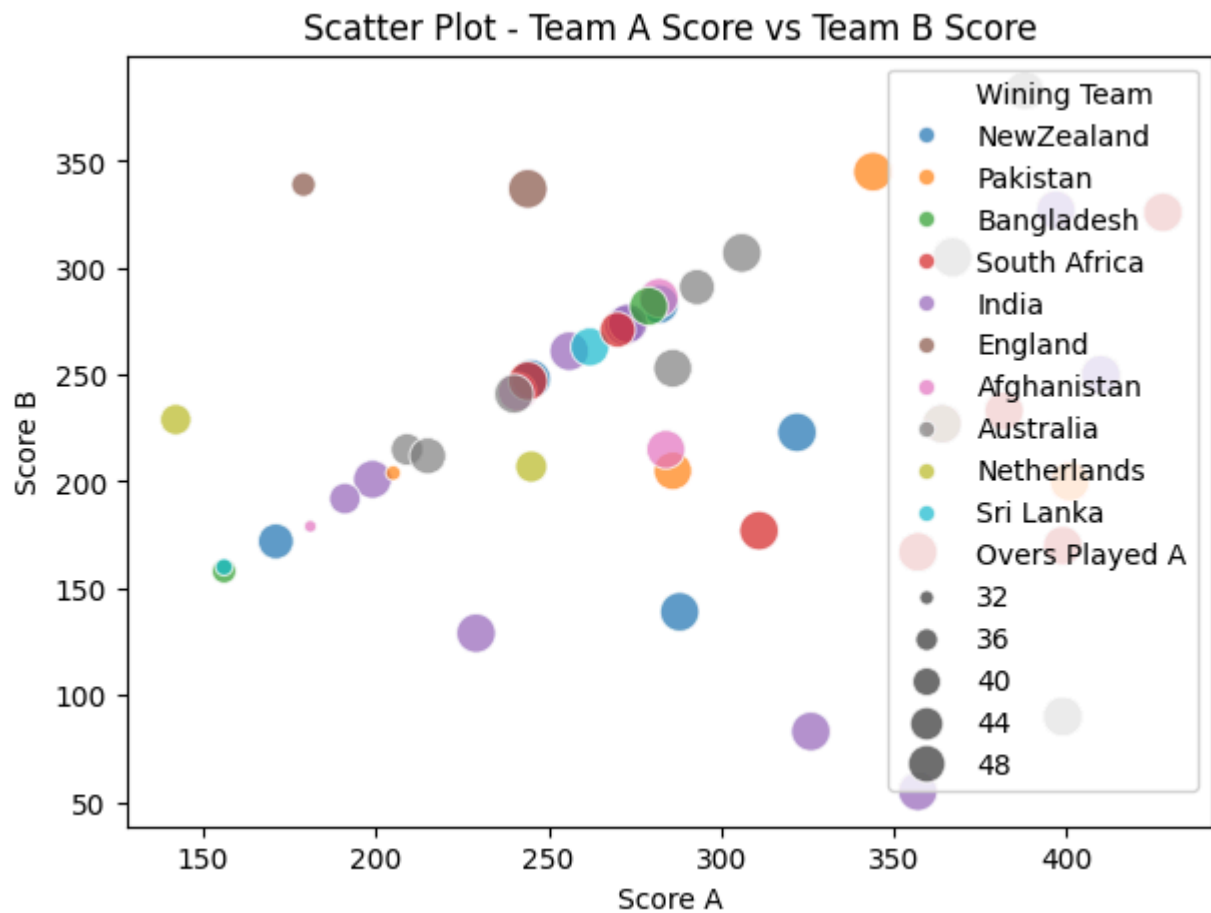
	No Balls	B	Penalty	B	Extras	B	Wining Team	Margin
0	0	0	0	6	NewZealand	9 Wickets		
1	1	0	9	Pakistan	81 Runs			
2	0	0	8	Bangladesh	6 Wickets			
3	1	0	23	South Africa	102 Runs			
4	0	0	12	India	6 wickets			

	Man of the Match	Umpire 1	Umpire 2
0	Rachin Ravindra	Kumar Dharmasena	Nitin Menon
1	Saud Shakeel	Adrian Holdstock	Chris Brown
2	Mehidy Hasan Miraz	Joel Wilson	Kumar Dharmasena
3	Aiden Markram	Richard Illingworth	Sharfuddoula
4	KL Rahul	Chris Gaffaney	Richard Kettleborough

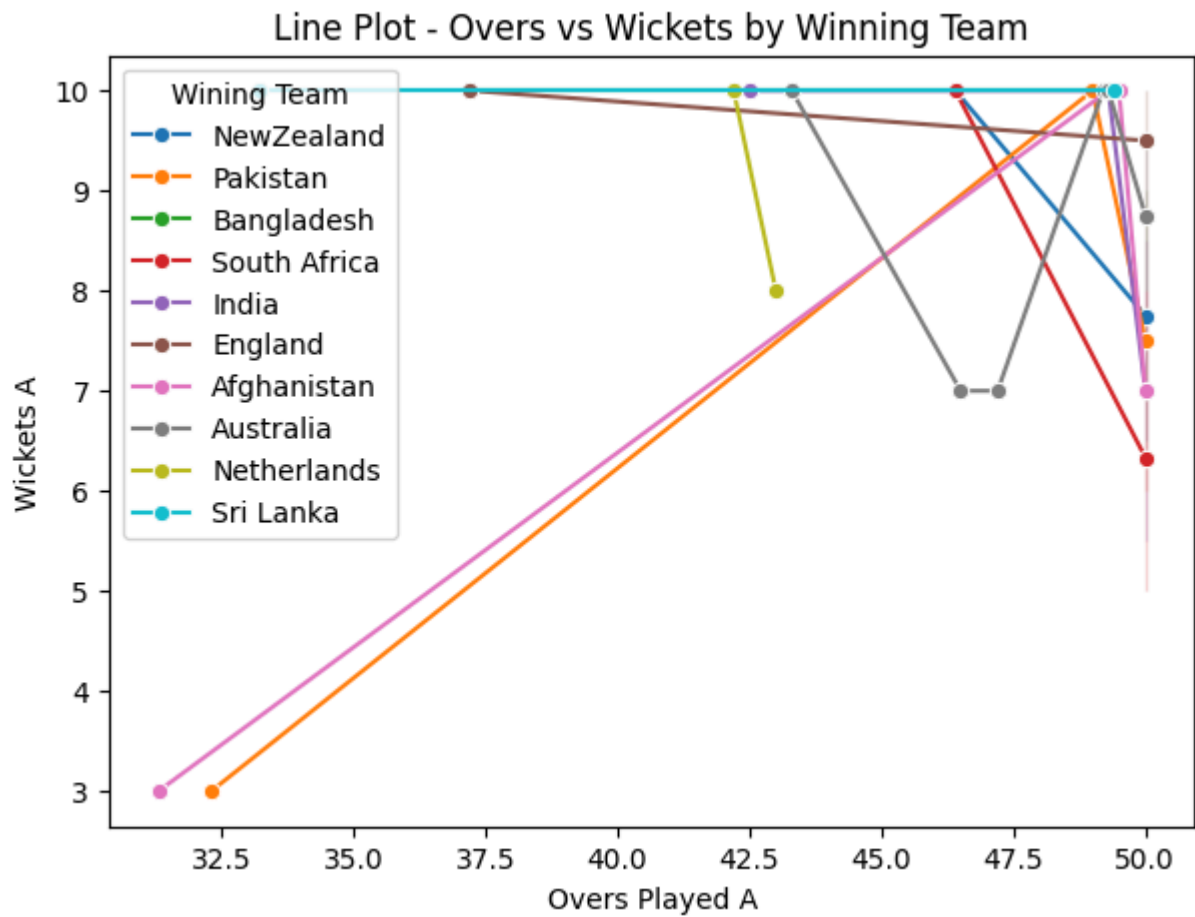
	TV Umpire	Match Referee
0	Paul Wilson	Javagal Srinath
1	Rod Tucker	Jeff Crowe
2	Ahsan Raza	Andy Pycroft
3	Michael Gough	Javagal Srinath
4	Chris Brown	Richie Richardson

```
[5 rows x 44 columns]
```

```
# Scatter Plot - Score A vs Score B (Bubble = Overs Played A, Hue = Wining Team)
plt.figure(figsize=(7,5))
sns.scatterplot(
    x="Score A", y="Score B",
    hue="Wining Team",
    size="Overs Played A",
    sizes=(20,200), data=df, alpha=0.7
)
plt.title("Scatter Plot - Team A Score vs Team B Score")
plt.show()
```



```
# Line Plot - Overs Played A vs Wickets A by Winning Team
plt.figure(figsize=(7,5))
sns.lineplot(
    x="Overs Played A", y="Wickets A",
    hue="Wining Team", data=df, marker="o"
)
plt.title("Line Plot - Overs vs Wickets by Winning Team")
plt.show()
```



```
# Bar Plot - Avg Score A by Winning Team
plt.figure(figsize=(10,6))
sns.barplot(
    x="Wining Team", y="Score A",
    data=df, ci="sd", palette="Set2"
)
plt.title("Bar Plot - Avg Score A by Winning Team")
plt.xticks(rotation=45)
plt.show()
```

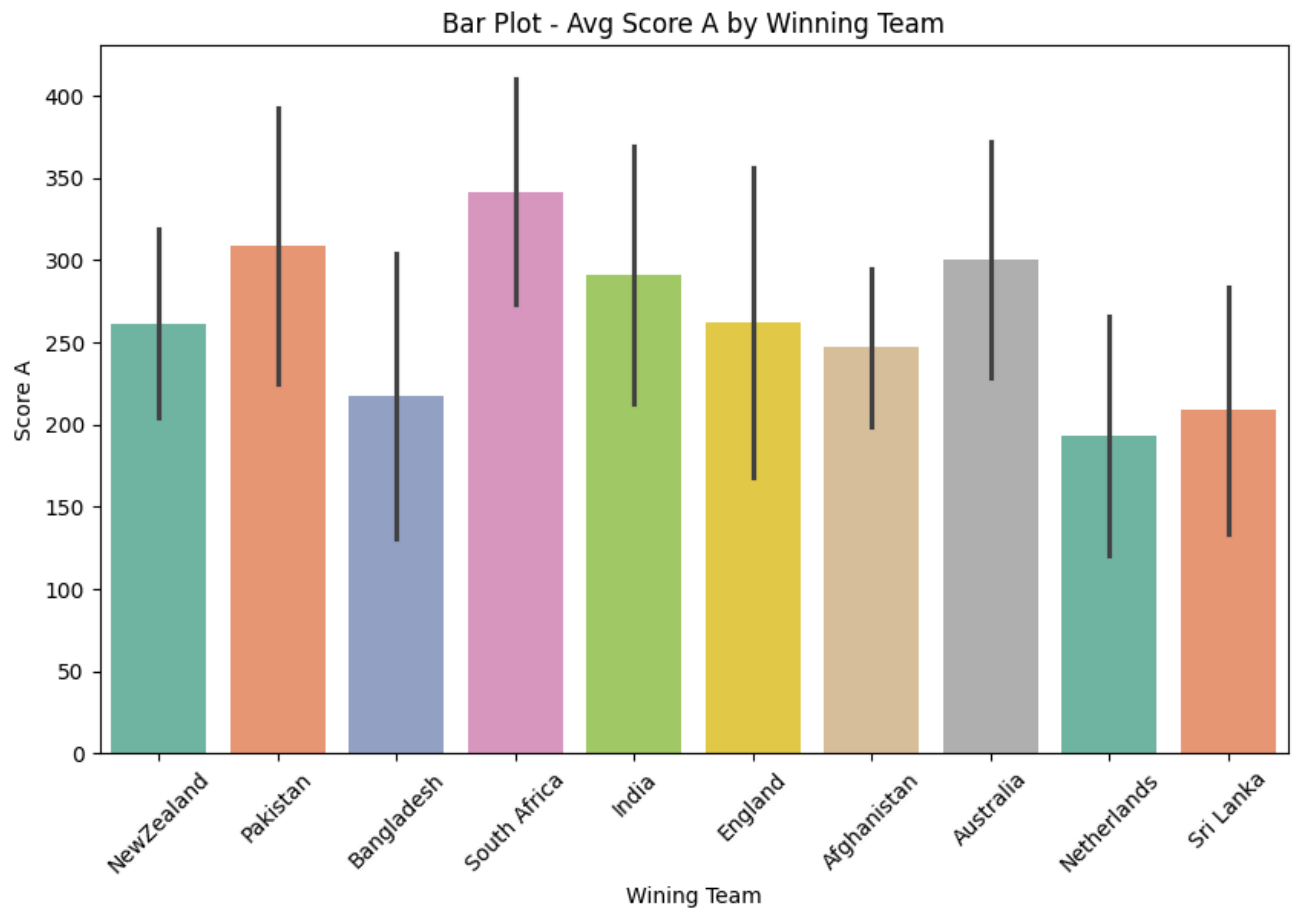
↗ /tmp/ipython-input-2526408709.py:3: FutureWarning:

The `ci` parameter is deprecated. Use `errorbar='sd'` for the same effect.

```
sns.barplot(
/tmp/ipython-input-2526408709.py:3: FutureWarning:
```

Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.

```
sns.barplot(
```



```
# Histogram Plots
```

```
numeric_cols = ["Score A", "Score B", "Wickets A", "Wickets B"]
```

```
plt.figure(figsize=(12,8))
```

```
for i, col in enumerate(numeric_cols, 1):
```

```
    plt.subplot(2, 2, i)
```

```
    sns.histplot(df[col], bins=10, kde=True, color="skyblue")
```

```
    plt.title(f"Histogram of {col}")
```

```
plt.tight_layout()
```

