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Data Visualization

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#Data Visualization

[1]

✓ 1s

import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt

[2]

✓ 0s

sns.set(style="whitegrid", palette="deep")
df = pd.read_csv("/content/loan_sanction_train.csv")

[9]

✓ 0s

df.head()

	Loan_ID	Gender	Married	Dependents	Education	Self_Employed	ApplicantIncome	CoapplicantIncome	LoanAmount	Loan_Amount_Term	Credit_History	Property
0	LP001002	Male	No	0	Graduate	No	5849	0.0	NaN	360.0	1.0	
1	LP001003	Male	Yes	1	Graduate	No	4583	1508.0	128.0	360.0	1.0	
2	LP001005	Male	Yes	0	Graduate	Yes	3000	0.0	66.0	360.0	1.0	
3	LP001006	Male	Yes	0	Not Graduate	No	2583	2358.0	120.0	360.0	1.0	
4	LP001008	Male	No	0	Graduate	No	6000	0.0	141.0	360.0	1.0	

Next steps: [Generate code with df](#) [New interactive sheet](#)

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df.head()

	Loan_ID	Gender	Married	Dependents	Education	Self_Employed	ApplicantIncome	CoapplicantIncome	LoanAmount	Loan_Amount_Term	Credit_History	Property_Availability
0	LP001002	Male	No	0	Graduate	No	5849	0.0	NaN	360.0	1.0	
1	LP001003	Male	Yes	1	Graduate	No	4583	1508.0	128.0	360.0	1.0	
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4	LP001008	Male	No	0	Graduate	No	6000	0.0	141.0	360.0	1.0	

Next steps:

Generate code with df

New interactive sheet

[10] sns.set_style('darkgrid')
plt.figure(figsize=(10,5))
sns.countplot(x=df['Loan_Status'], palette='Reds')
plt.title('Loan Status Distribution', fontsize=16)
plt.xlabel('Loan Status', fontsize=13)
plt.ylabel('Count', fontsize=13)
plt.show()

... /tmp/ipython-input-183336865.py:3: FutureWarning:
Passing 'palette' without assigning 'hue' is deprecated and will be removed in v0.14.0. Assign the 'x' variable to 'hue' and set 'legend=False' for the same

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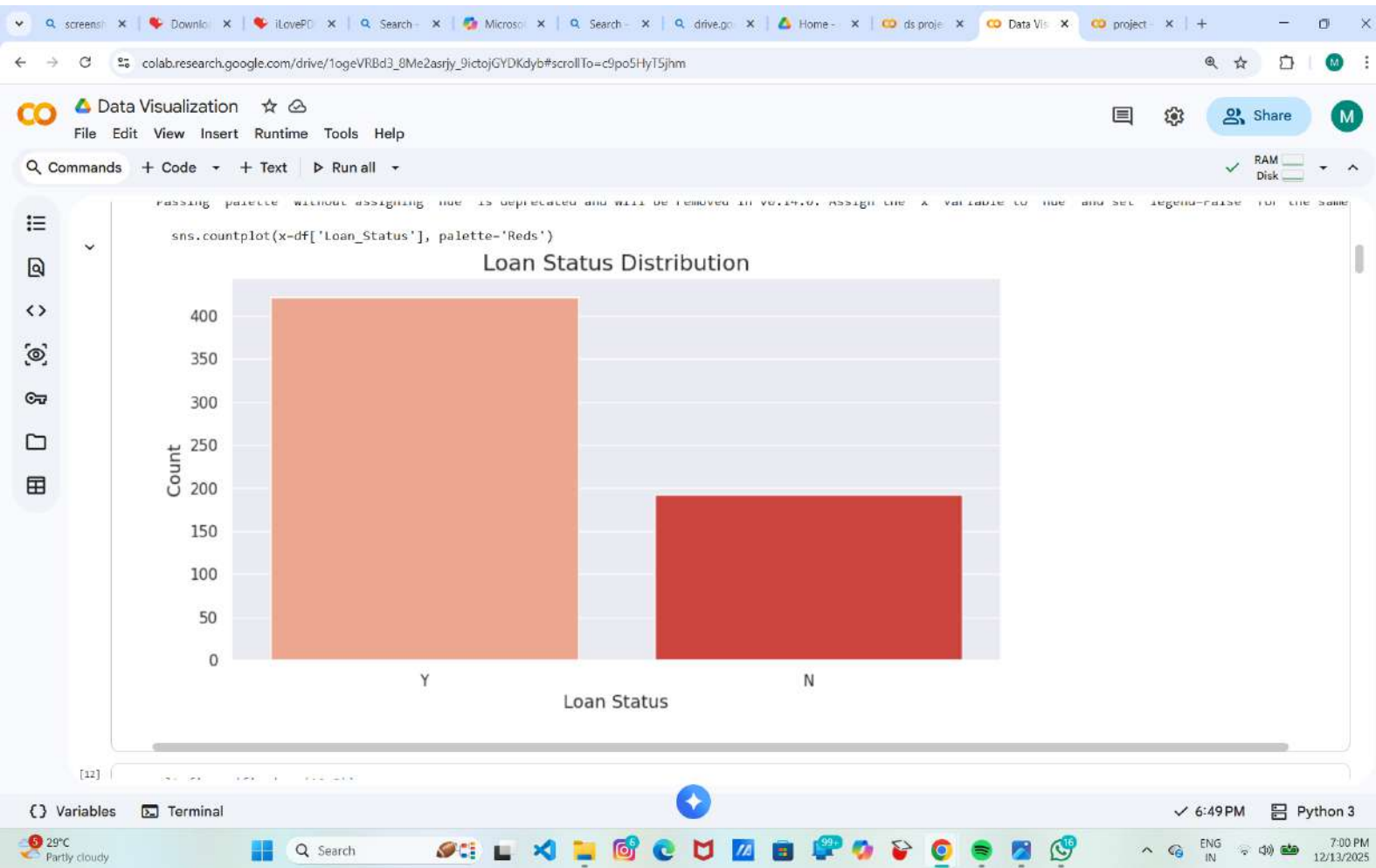
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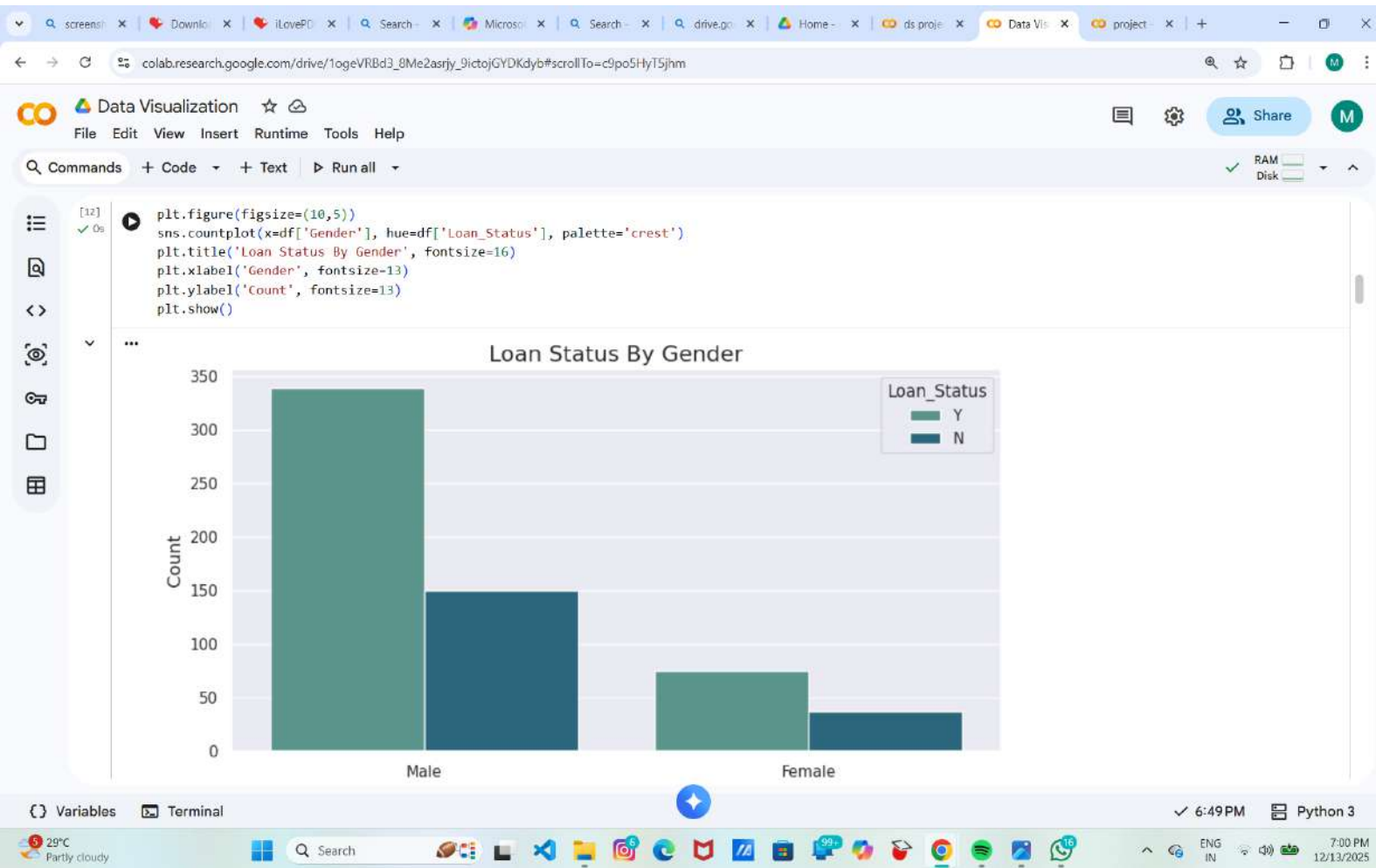
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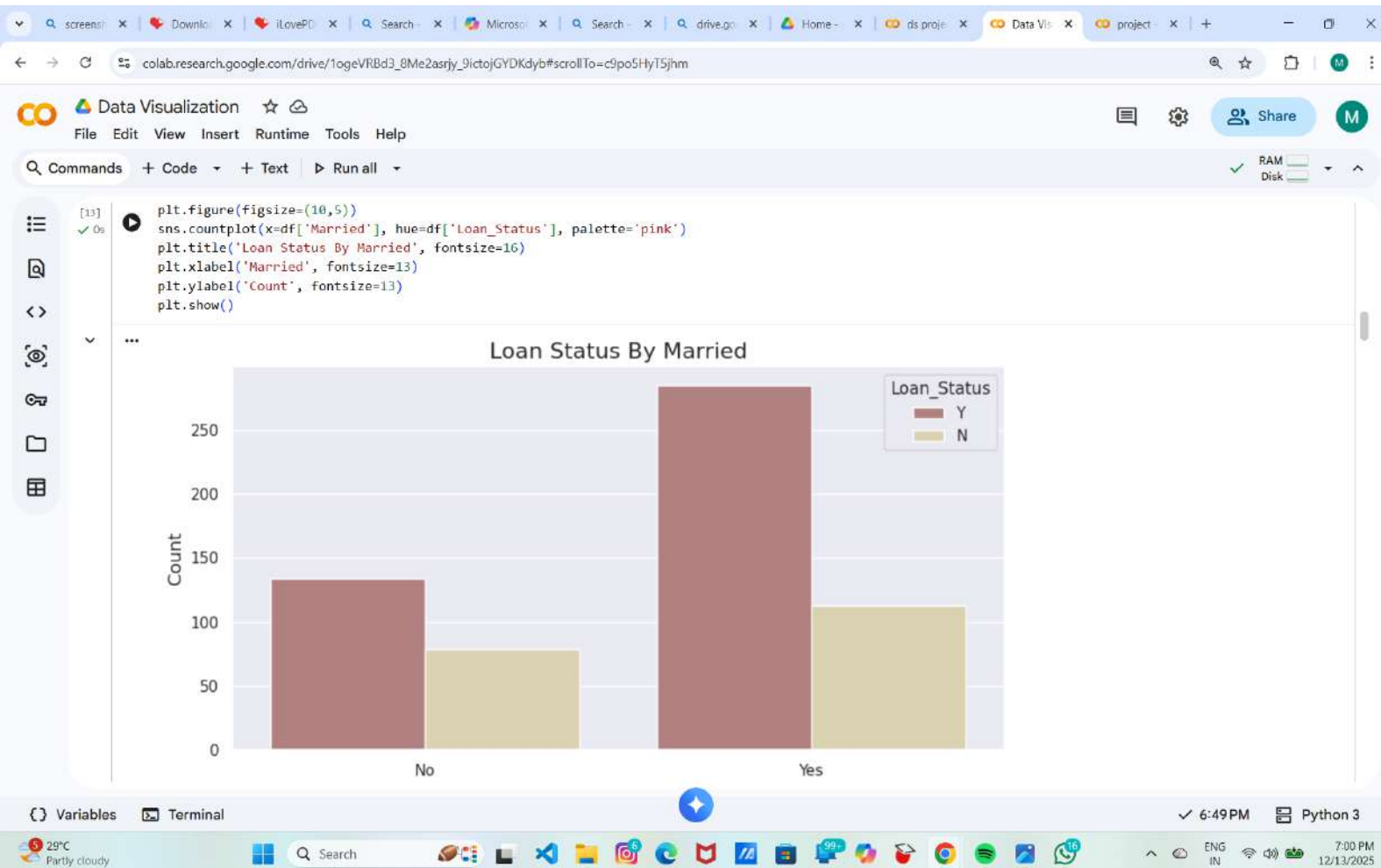
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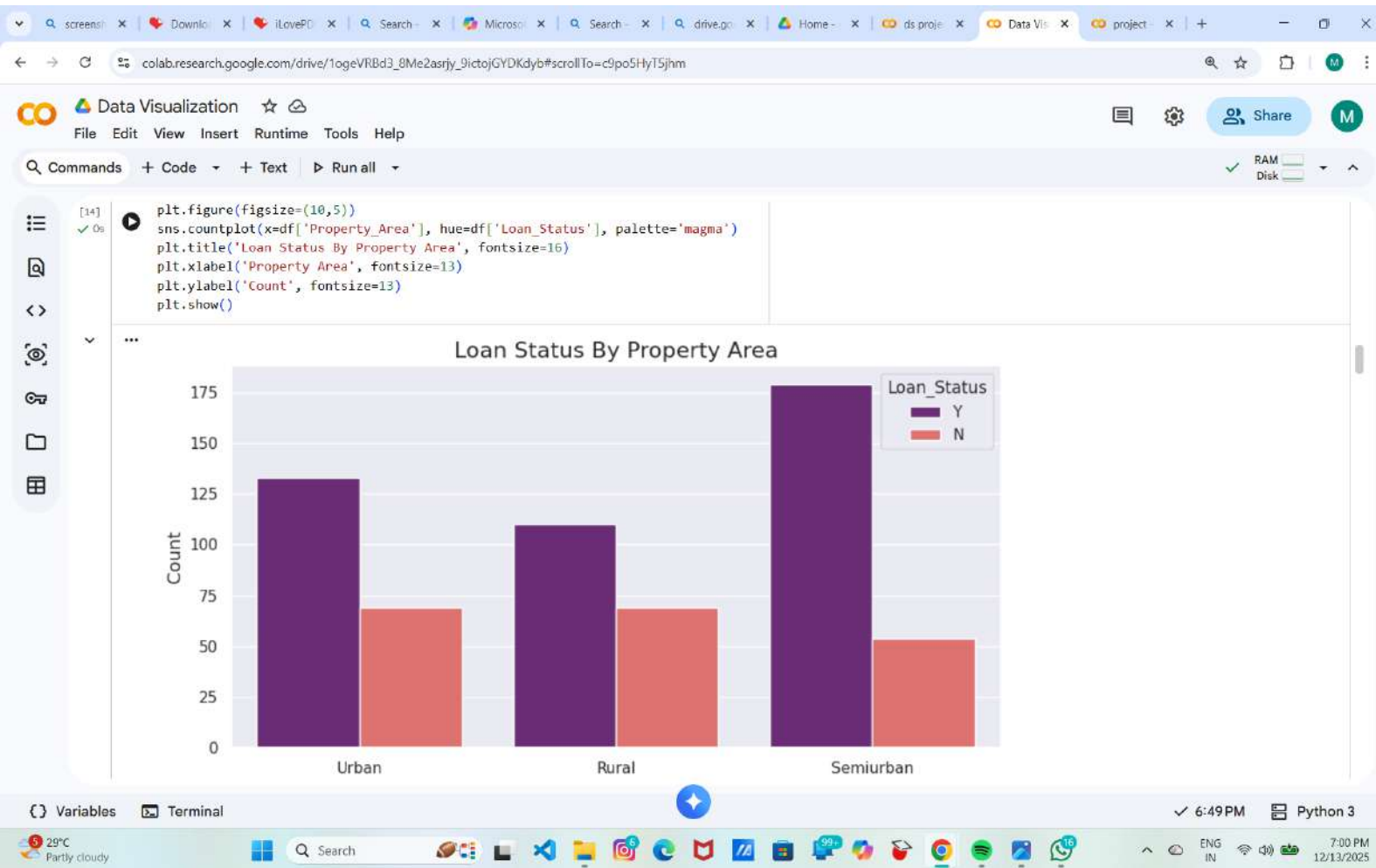
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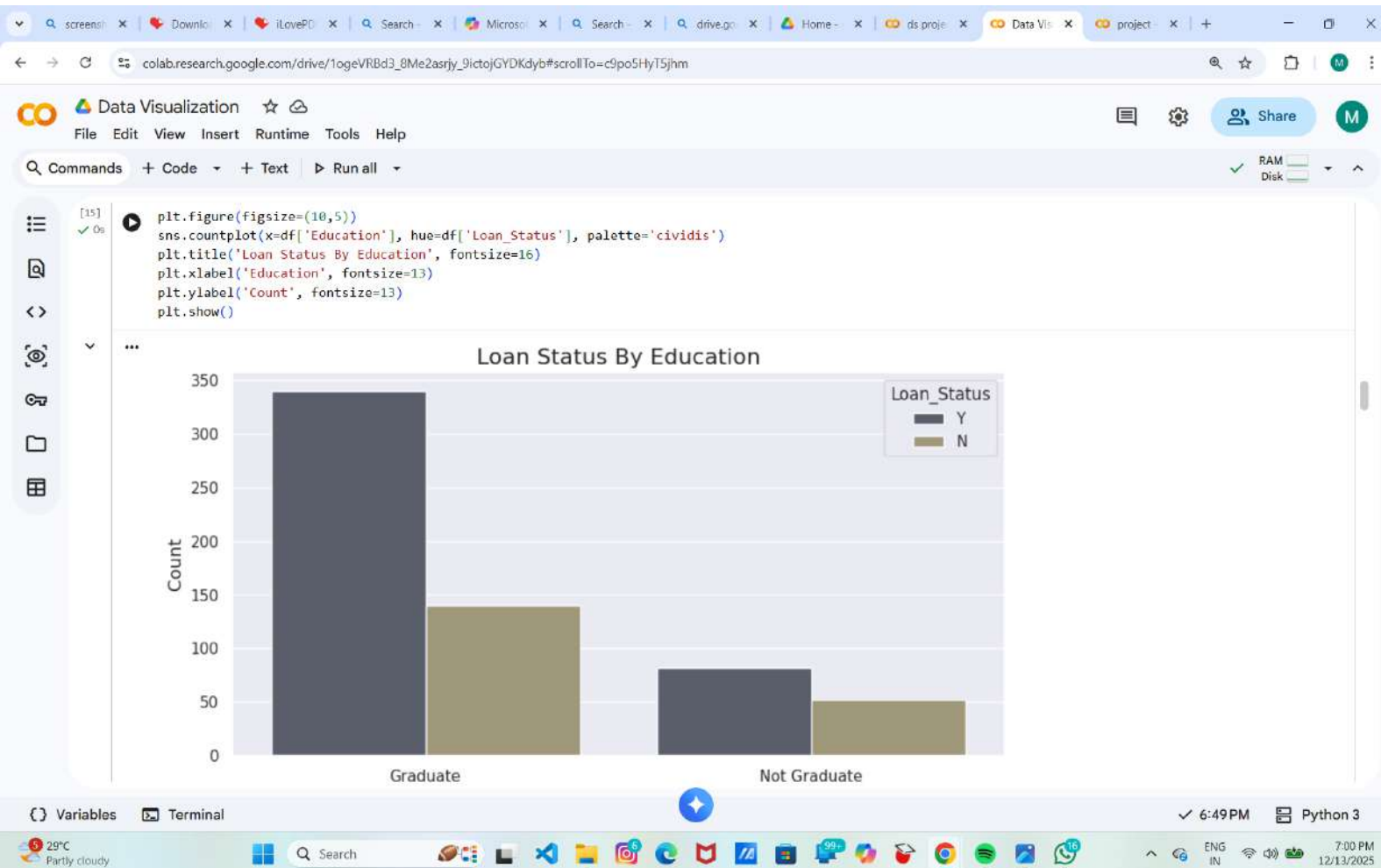
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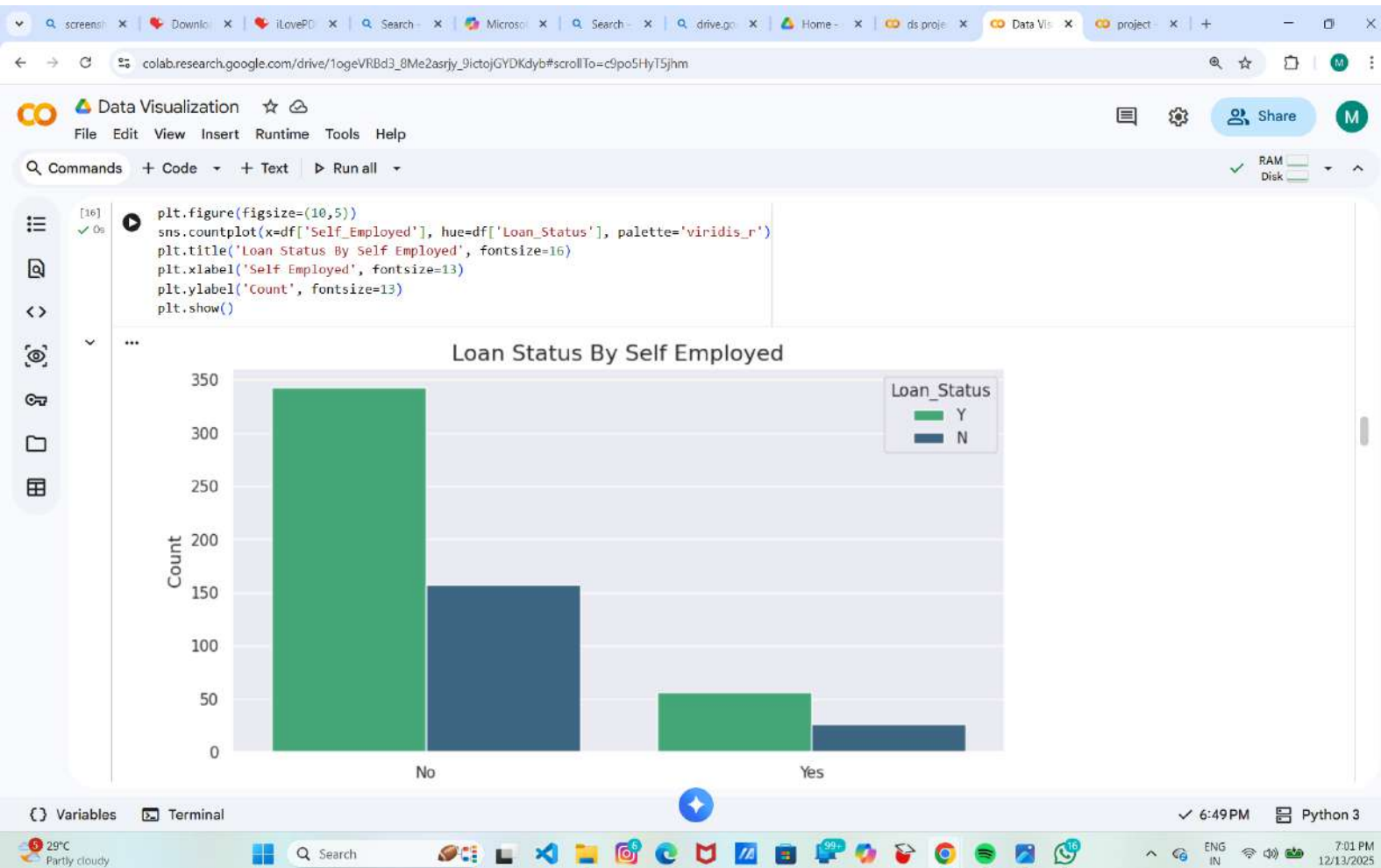


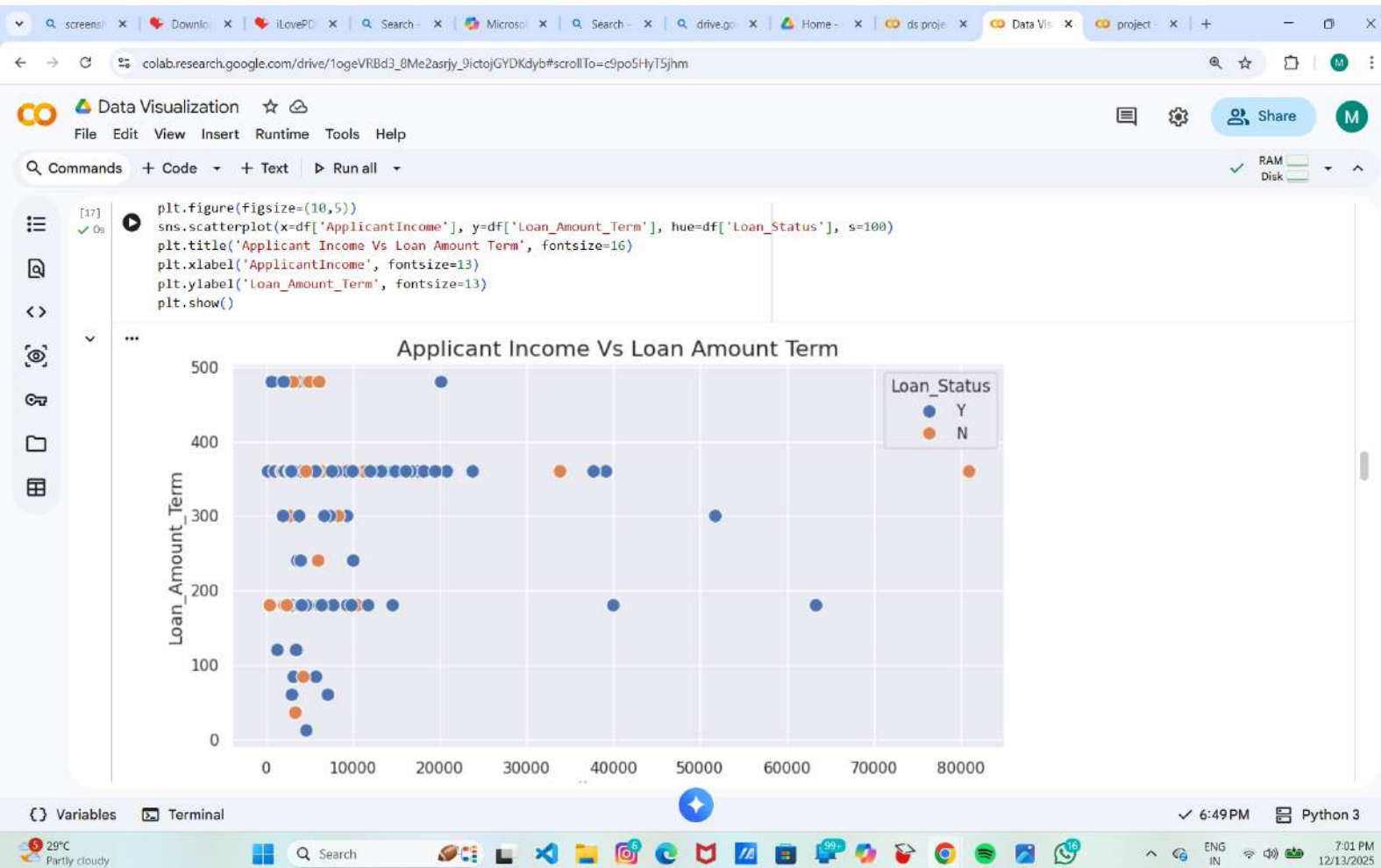


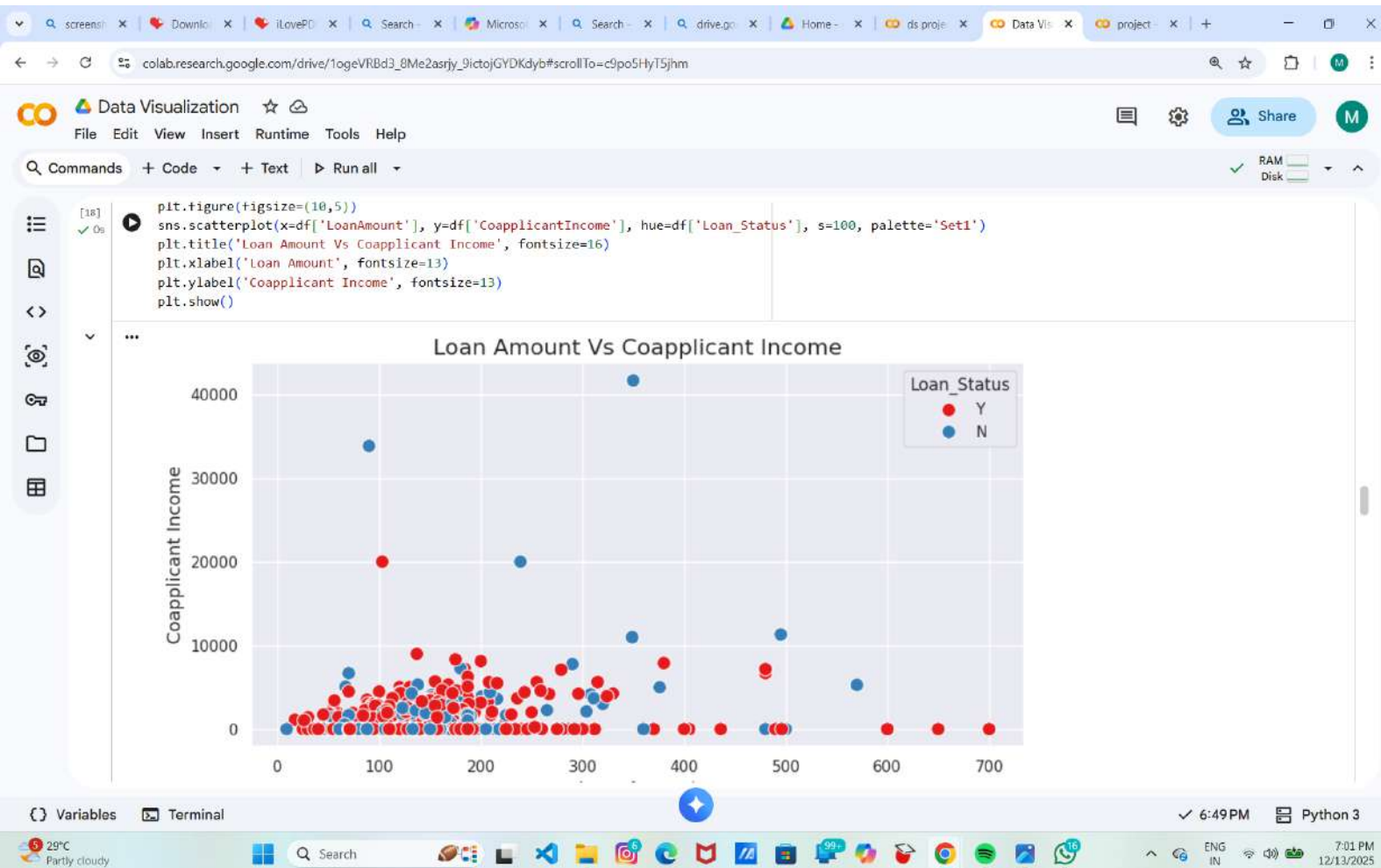


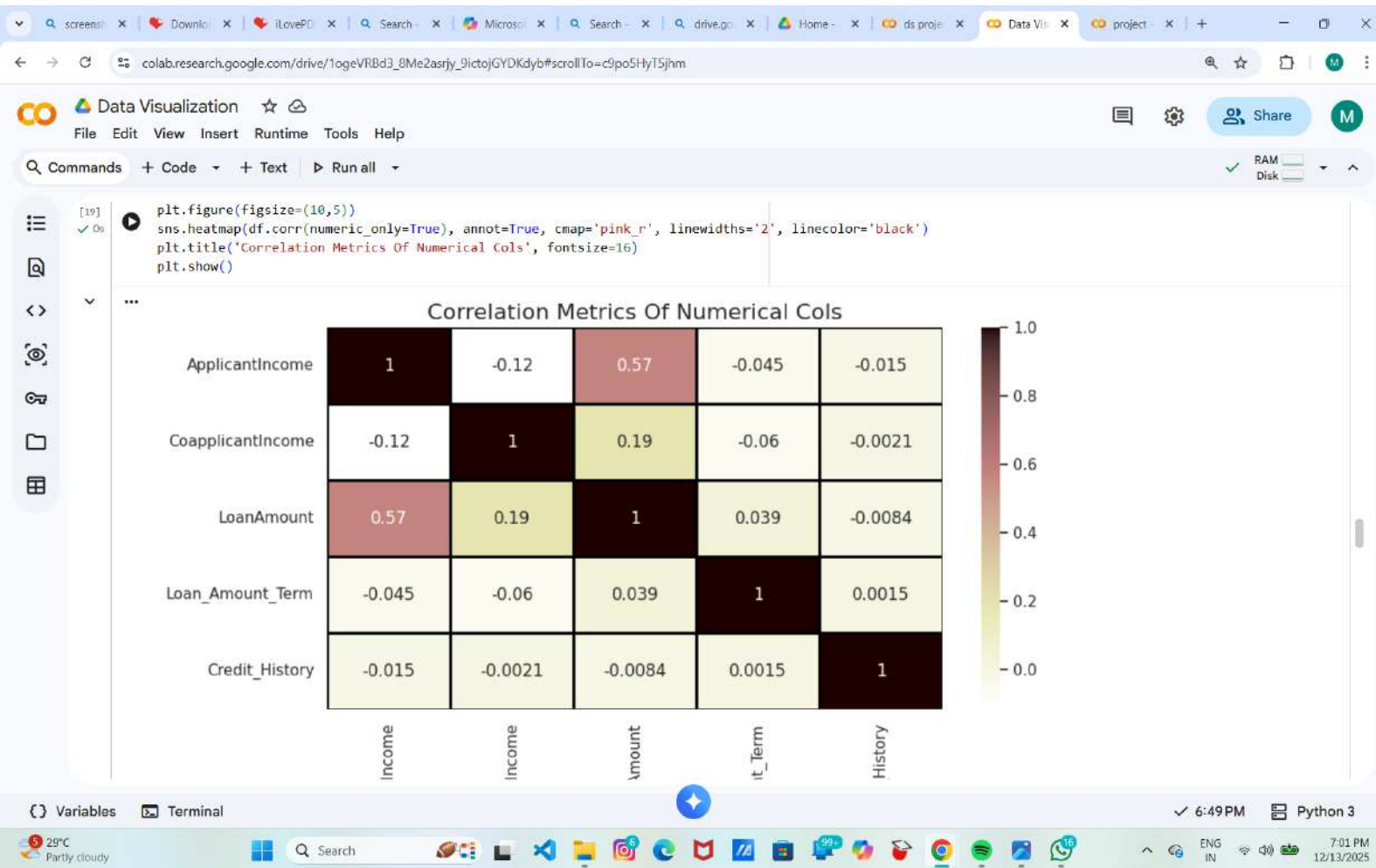


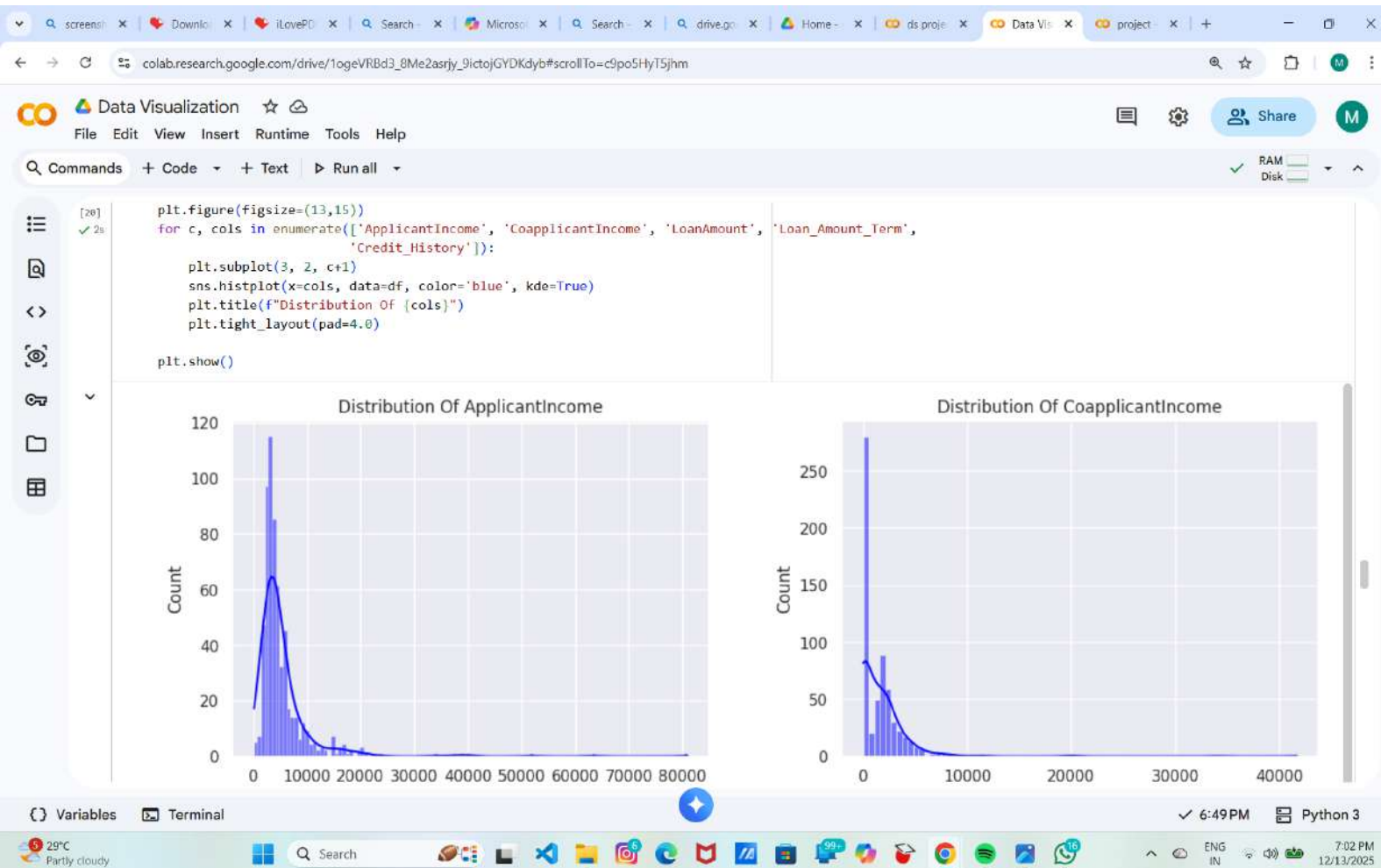


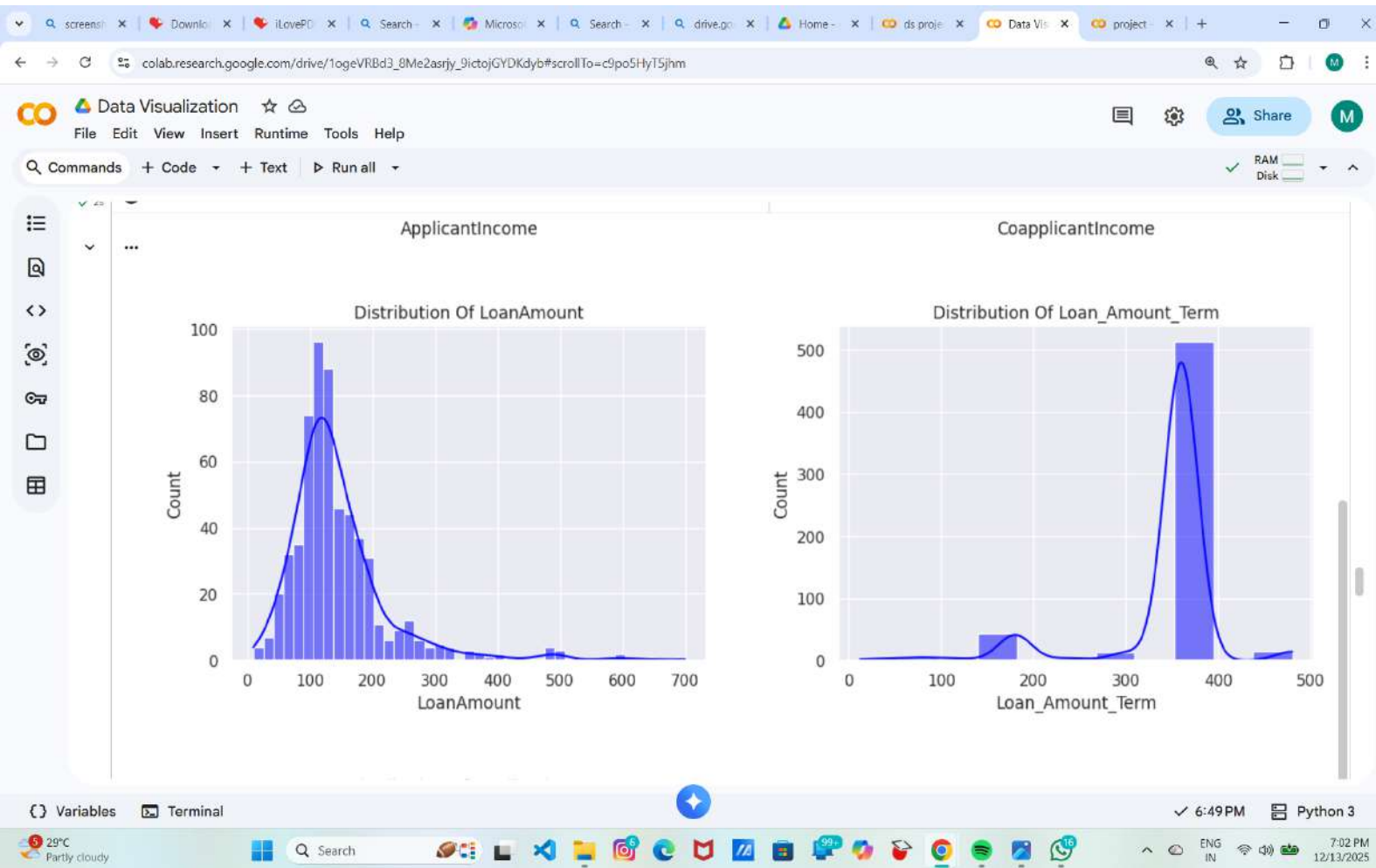


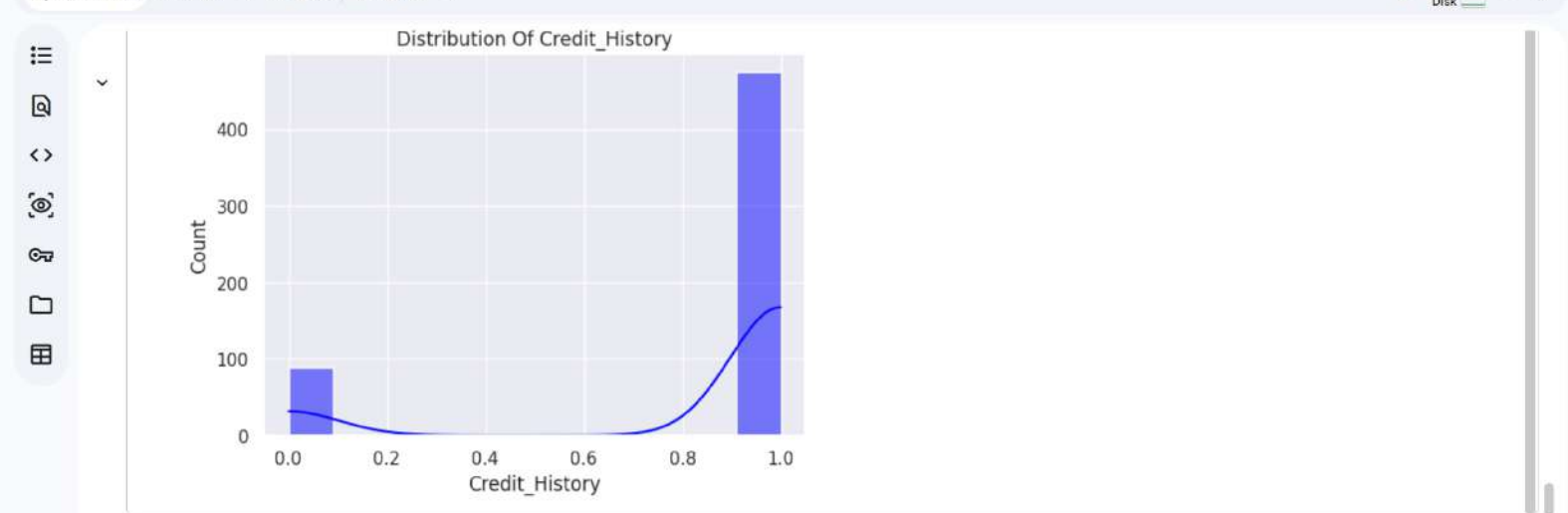












```
[21] ✓ 0s
plt.figure(figsize=(13,15))
for c, cols in enumerate(['ApplicantIncome', 'CoapplicantIncome', 'LoanAmount', 'Loan_Amount_Term',
                           'Credit_History']):
    plt.subplot(3, 2, c+1)
    sns.kdeplot(x=cols, data=df, color='blue', shade=True)
    plt.title(f"Distribution Of {cols}")
plt.tight_layout(pad=4.0)
```


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plt.show()

... /tmp/ipython-input-232175503.py:5: FutureWarning:
`shade` is now deprecated in favor of `fill`; setting `fill=True`.
This will become an error in seaborn v0.14.0; please update your code.

sns.kdeplot(x=cols, data=df, color='blue', shade=True)
/tmp/ipython-input-232175503.py:5: FutureWarning:
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This will become an error in seaborn v0.14.0; please update your code.

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Distribution of ...

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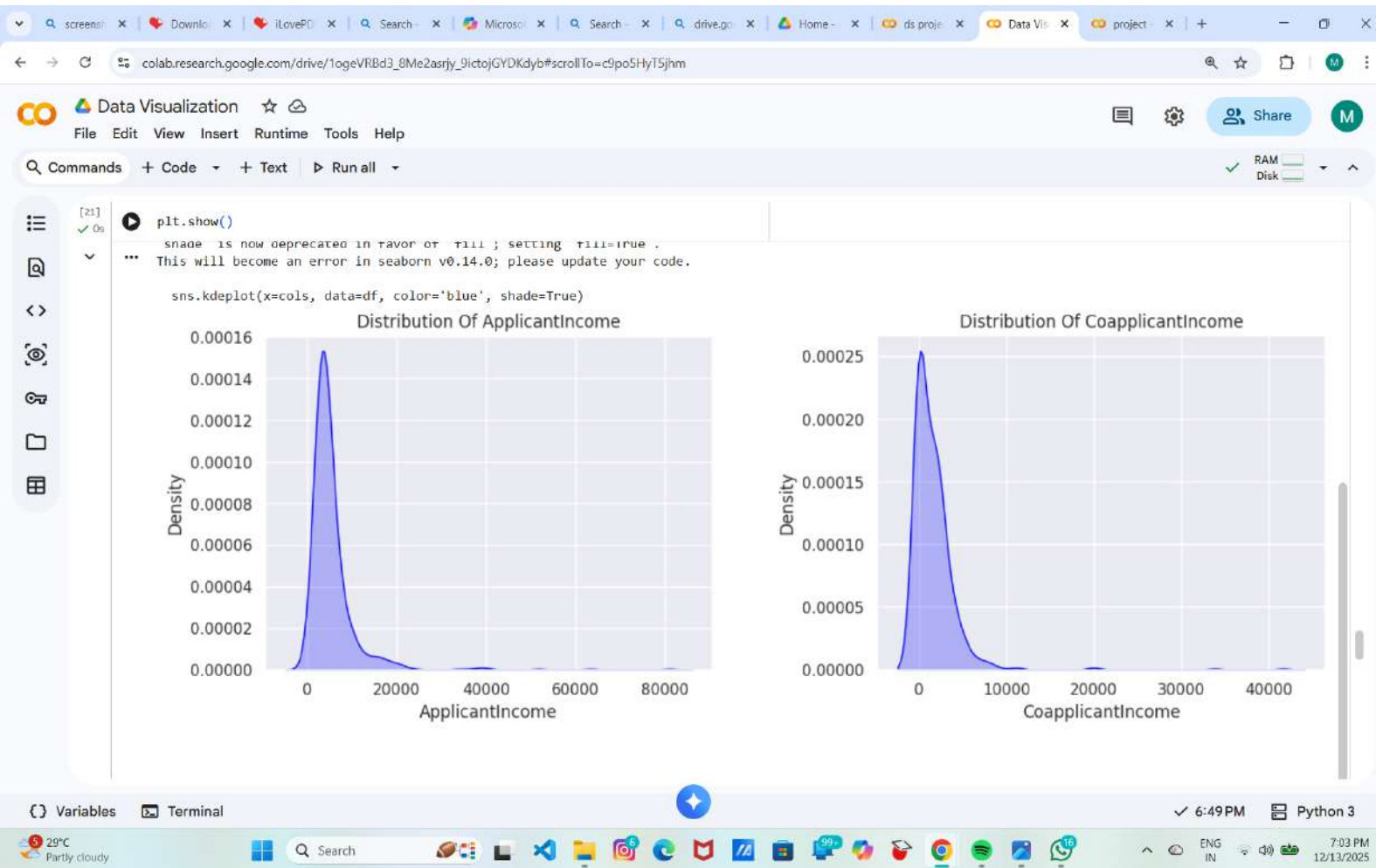
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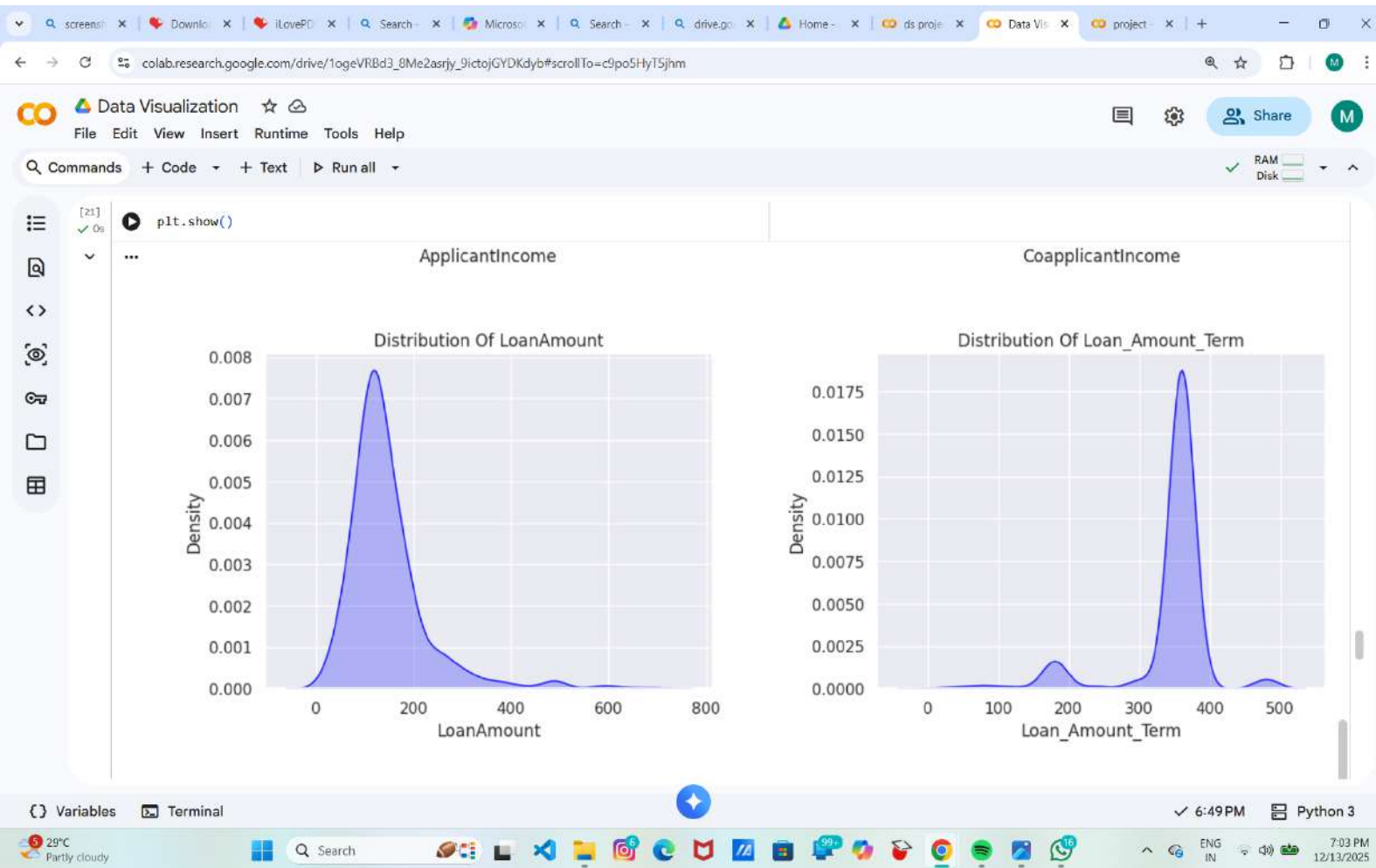
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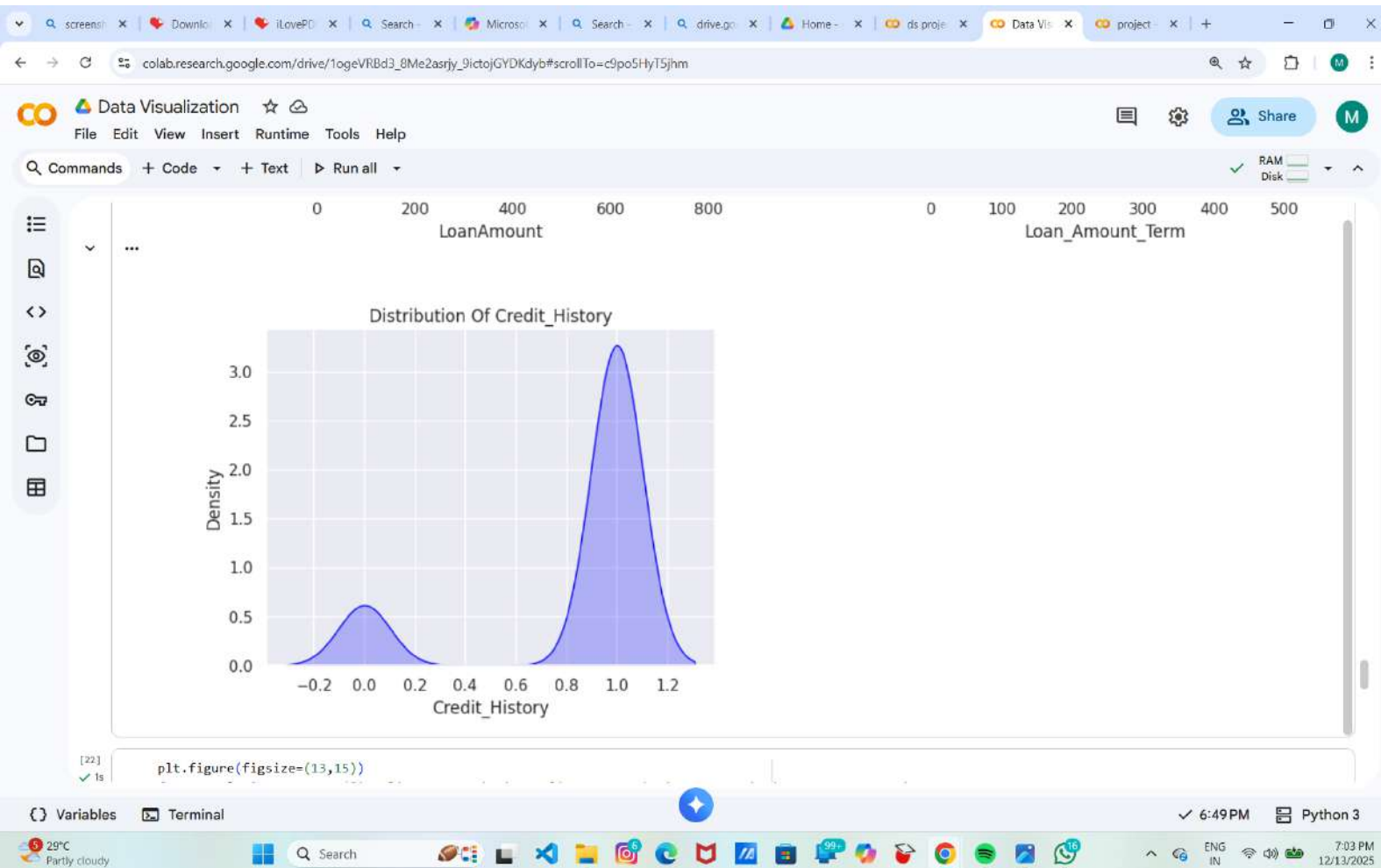
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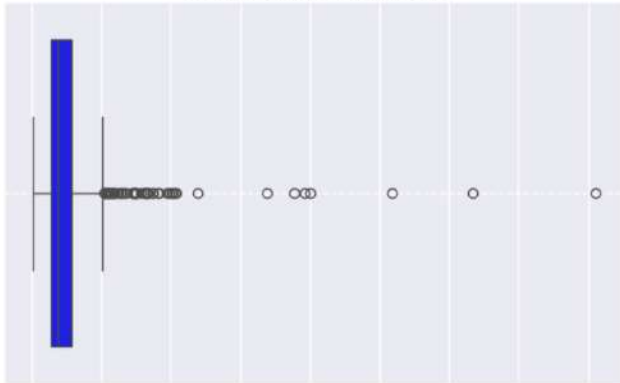
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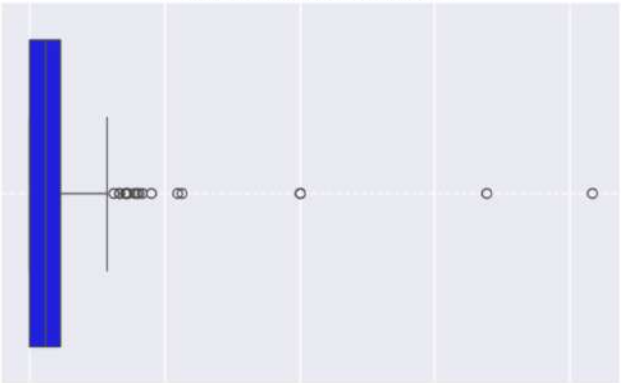
```
[22] ✓ ts ▶ plt.figure(figsize=(13,15))
for c, cols in enumerate(['ApplicantIncome', 'CoapplicantIncome', 'LoanAmount', 'Loan_Amount_Term',
                           'Credit_History']):
    plt.subplot(3, 2, c+1)
    sns.boxplot(x=cols, data=df, color='blue')
    plt.title(f"BoxPlot Of {cols}")
    plt.grid(axis='y', linestyle='--')
    plt.tight_layout(pad=4.0)

plt.show()
```

BoxPlot Of ApplicantIncome



BoxPlot Of CoapplicantIncome



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