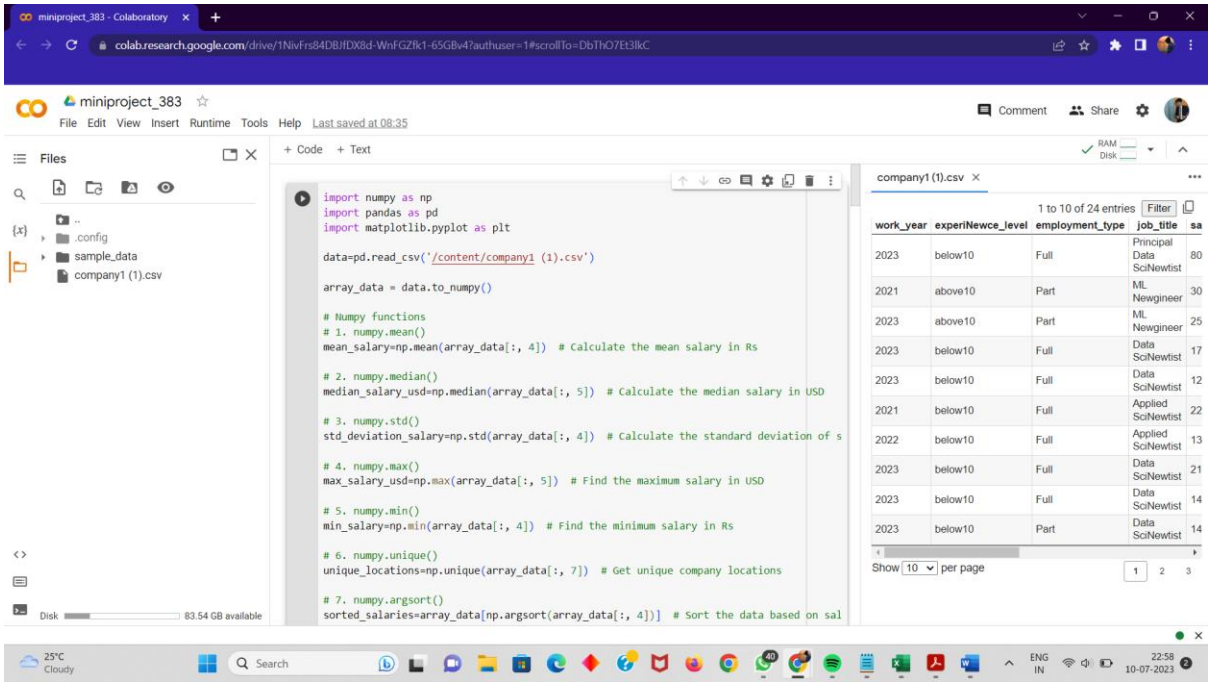
CODE OF MN PROJECT

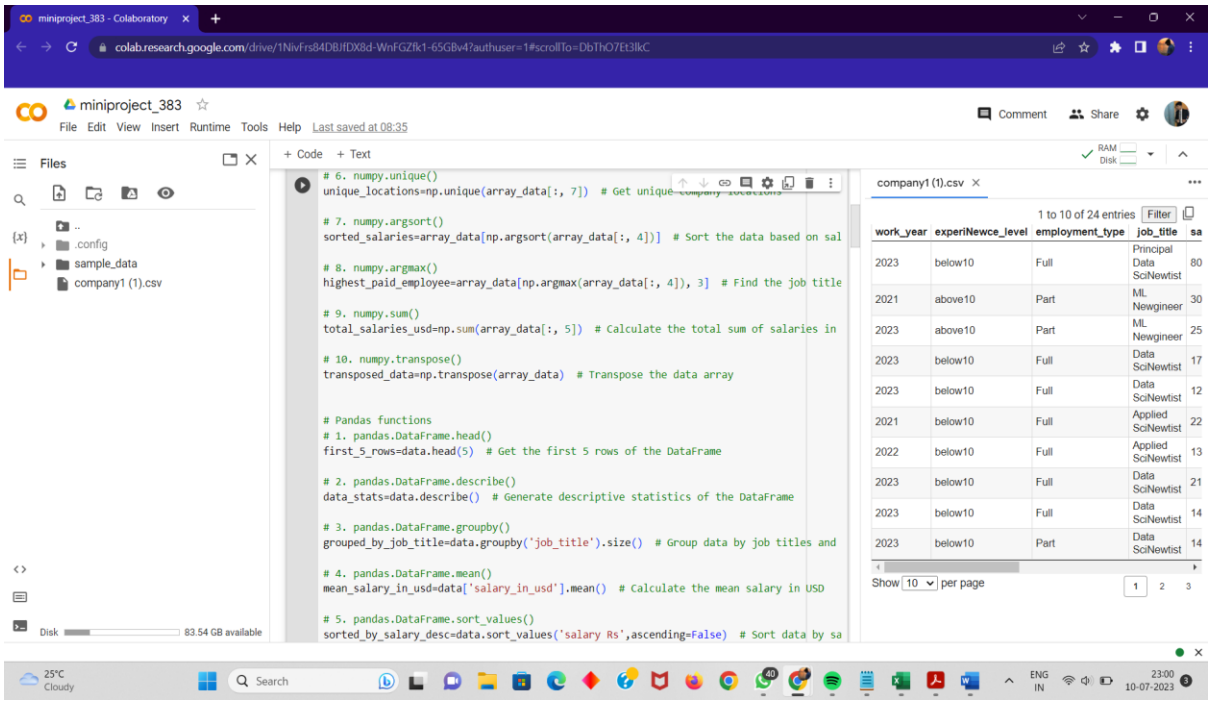


```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt

data=pd.read_csv('/content/company1 (1).csv')

array_data = data.to_numpy()

# Numpy functions
# 1. numpy.mean()
mean_salary=np.mean(array_data[:, 4])  # Calculate the mean salary in Rs

# 2. numpy.median()
median_salary_usd=np.median(array_data[:, 5])  # Calculate the median salary in USD

# 3. numpy.std()
std_deviation_salary=np.std(array_data[:, 4])  # Calculate the standard deviation of s

# 4. numpy.max()
max_salary_usd=np.max(array_data[:, 5])  # Find the maximum salary in USD

# 5. numpy.min()
min_salary=np.min(array_data[:, 4])  # Find the minimum salary in Rs

# 6. numpy.unique()
unique_locations=np.unique(array_data[:, 7])  # Get unique company locations

# 7. numpy.argsort()
sorted_salaries=array_data[np.argsort(array_data[:, 4])]  # Sort the data based on sal
```

company1 (1).csv

1 to 10 of 24 entries

work_year	experiNewce_level	employment_type	job_title	sa
2023	below10	Full	Principal Data SciNewtist	80
2021	above10	Part	ML Newgineer	30
2023	above10	Part	ML Newgineer	25
2023	below10	Full	Data SciNewtist	17
2023	below10	Full	Data SciNewtist	12
2021	below10	Full	Applied SciNewtist	22
2022	below10	Full	Applied SciNewtist	13
2023	below10	Full	Data SciNewtist	21
2023	below10	Full	Data SciNewtist	14
2023	below10	Part	Data SciNewtist	14

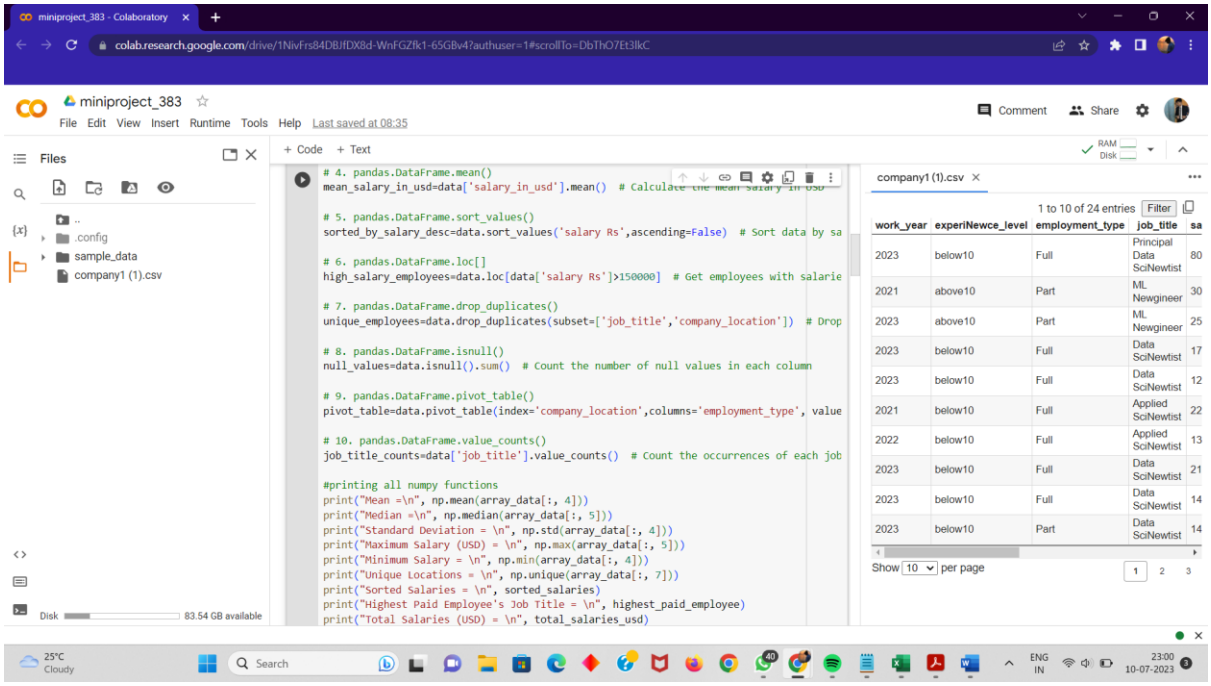


```
# 6. numpy.unique()
unique_locations=np.unique(array_data[:, 7])  # Get unique company locations

# 7. numpy.argsort()
sorted_salaries=array_data[np.argsort(array_data[:, 4])]  # Sort the data based on sal

# 8. numpy.argmax()
highest_paid_employee=array_data[np.argmax(array_data[:, 4]), 3]  # Find the job title

# 9. numpy.sum()
total_salaries_usd=np.sum(array_data[:, 5])  # Calculate the total sum of salaries in

# 10. numpy.transpose()
transposed_data=np.transpose(array_data)  # Transpose the data array


# Pandas functions
# 1. pandas.DataFrame.head()
first_5_rows=data.head(5)  # Get the first 5 rows of the DataFrame

# 2. pandas.DataFrame.describe()
data_stats=data.describe()  # Generate descriptive statistics of the DataFrame

# 3. pandas.DataFrame.groupby()
grouped_by_job_title=data.groupby('job_title').size()  # Group data by job titles and

# 4. pandas.DataFrame.mean()
mean_salary_in_usd=data['salary_in_usd'].mean()  # Calculate the mean salary in USD

# 5. pandas.DataFrame.sort_values()
sorted_by_salary_desc=data.sort_values('salary Rs',ascending=False)  # Sort data by sa
```

company1 (1).csv

1 to 10 of 24 entries

work_year	experiNewce_level	employment_type	job_title	sa
2023	below10	Full	Principal Data SciNewtist	80
2021	above10	Part	ML Newgineer	30
2023	above10	Part	ML Newgineer	25
2023	below10	Full	Data SciNewtist	17
2023	below10	Full	Data SciNewtist	12
2021	below10	Full	Applied SciNewtist	22
2022	below10	Full	Applied SciNewtist	13
2023	below10	Full	Data SciNewtist	21
2023	below10	Full	Data SciNewtist	14
2023	below10	Part	Data SciNewtist	14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# 4. pandas.DataFrame.mean()
mean_salary_in_usd=data['salary_in_usd'].mean() # Calculate the mean salary in USD
# 5. pandas.DataFrame.sort_values()
sorted_by_salary_desc=data.sort_values('salary Rs',ascending=False) # Sort data by sa
# 6. pandas.DataFrame.loc[]
high_salary_employees=data.loc[data['salary Rs']>150000] # Get employees with salarie
# 7. pandas.DataFrame.drop_duplicates()
unique_employees=data.drop_duplicates(subset=['job_title','company_location']) # Drop
# 8. pandas.DataFrame.isnull()
null_values=data.isnull().sum() # Count the number of null values in each column
# 9. pandas.DataFrame.pivot_table()
pivot_table=data.pivot_table(index='company_location',columns='employment_type', value
# 10. pandas.DataFrame.value_counts()
job_title_counts=data['job_title'].value_counts() # Count the occurrences of each job
#printing all numpy functions
print("Mean =\n", np.mean(array_data[:, 4]))
print("Median =\n", np.median(array_data[:, 5]))
print("Standard Deviation = \n", np.std(array_data[:, 4]))
print("Maximum Salary (USD) = \n", np.max(array_data[:, 5]))
print("Minimum Salary = \n", np.min(array_data[:, 4]))
print("Unique Locations = \n", np.unique(array_data[:, 7]))
print("Sorted Salaries = \n", sorted_salaries)
print("Highest Paid Employee's Job Title = \n", highest_paid_employee)
print("Total Salaries (USD) = \n", total_salaries_usd)
company1 (1).csv
1 to 10 of 24 entries
Filter
work_year experiNewce_level employment_type job_title sa
2023 below10 Full Principal Data SciNewtist 80
2021 above10 Part ML Newgineer 30
2023 above10 Part ML Newgineer 25
2023 below10 Full Data SciNewtist 17
2023 below10 Full Data SciNewtist 12
2021 below10 Full Applied SciNewtist 22
2022 below10 Full Applied SciNewtist 13
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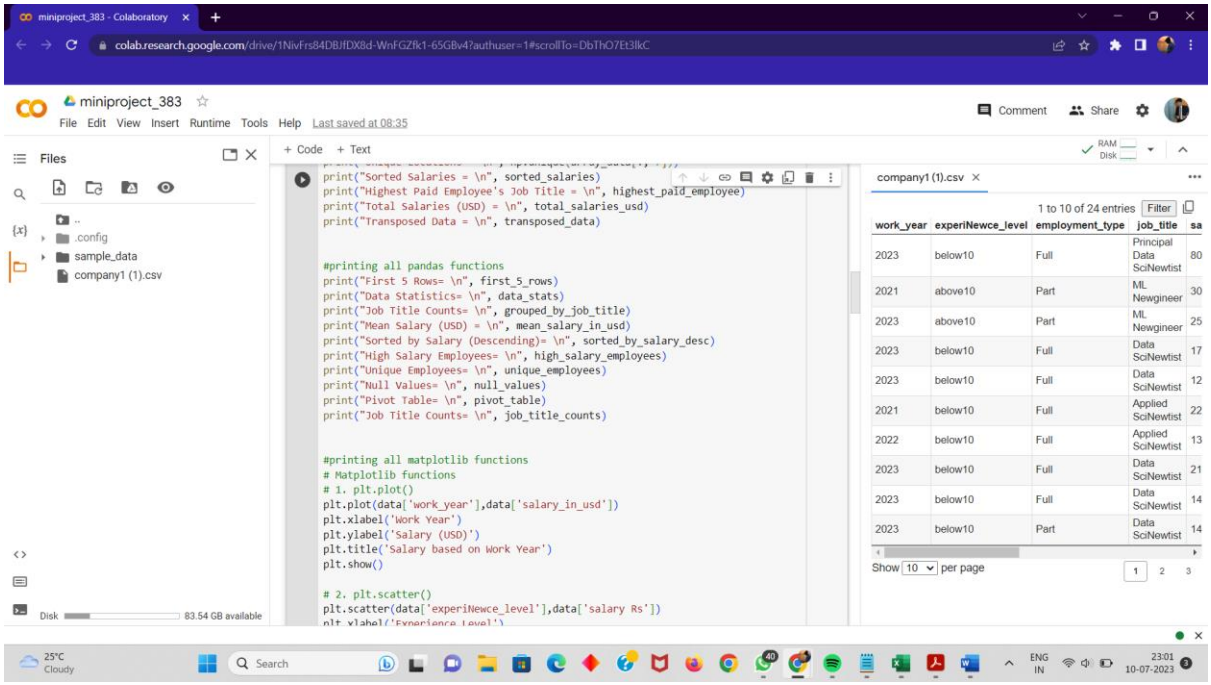
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print("Sorted Salaries = \n", sorted_salaries)
print("Highest Paid Employee's Job Title = \n", highest_paid_employee)
print("Total Salaries (USD) = \n", total_salaries_usd)
print("Transposed Data = \n", transposed_data)
#printing all pandas functions
print("First 5 Rows= \n", first_5_rows)
print("Data Statistics= \n", data_stats)
print("Job Title Counts= \n", grouped_by_job_title)
print("Mean Salary (USD) = \n", mean_salary_in_usd)
print("Sorted by Salary (Descending)= \n", sorted_by_salary_desc)
print("High Salary Employees= \n", high_salary_employees)
print("Unique Employees= \n", unique_employees)
print("Null Values= \n", null_values)
print("Pivot Table= \n", pivot_table)
print("Job Title Counts= \n", job_title_counts)
#printing all matplotlib functions
# Matplotlib functions
# 1. plt.plot()
plt.plot(data['work_year'],data['salary_in_usd'])
plt.xlabel('Work Year')
plt.ylabel('Salary (USD)')
plt.title('Salary based on Work Year')
plt.show()
# 2. plt.scatter()
plt.scatter(data['experiNewce_level'],data['salary Rs'])
company1 (1).csv
1 to 10 of 24 entries
Filter
work_year experiNewce_level employment_type job_title sa
2023 below10 Full Principal Data SciNewtist 80
2021 above10 Part ML Newgineer 30
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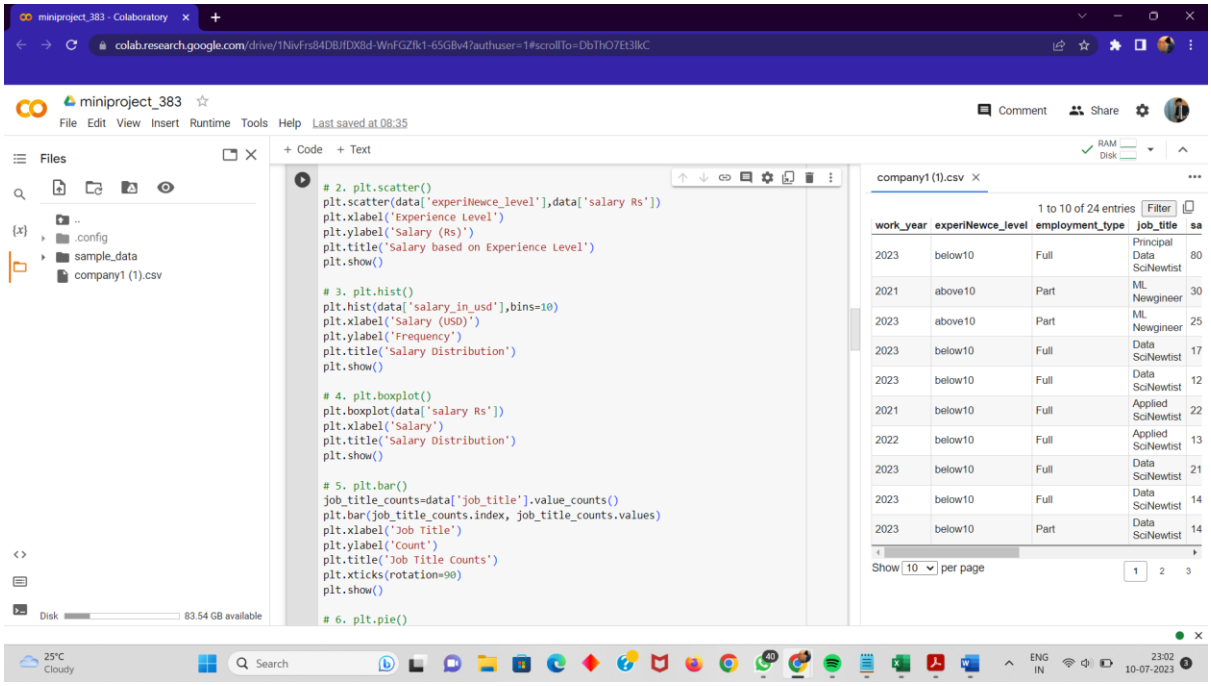
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# 2. plt.scatter()
plt.scatter(data['experiNewce_level'],data['salary Rs'])
plt.xlabel('Experience Level')
plt.ylabel('Salary (Rs)')
plt.title('Salary based on Experience Level')
plt.show()
# 3. plt.hist()
plt.hist(data['salary_in_usd'],bins=10)
plt.xlabel('Salary (USD)')
plt.ylabel('Frequency')
plt.title('Salary Distribution')
plt.show()
# 4. plt.boxplot()
plt.boxplot(data['salary Rs'])
plt.xlabel('Salary')
plt.title('Salary Distribution')
plt.show()
# 5. plt.bar()
job_title_counts=data['job_title'].value_counts()
plt.bar(job_title_counts.index, job_title_counts.values)
plt.xlabel('Job Title')
plt.ylabel('Count')
plt.title('Job Title Counts')
plt.xticks(rotation=90)
plt.show()
# 6. plt.pie()
company1 (1).csv
1 to 10 of 24 entries Filter
work_year experiNewce_level employment_type job_title sa
2023 below10 Full Principal Data SciNewtist 80
2021 above10 Part ML Newgineer 30
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2023 below10 Full Data SciNewtist 17
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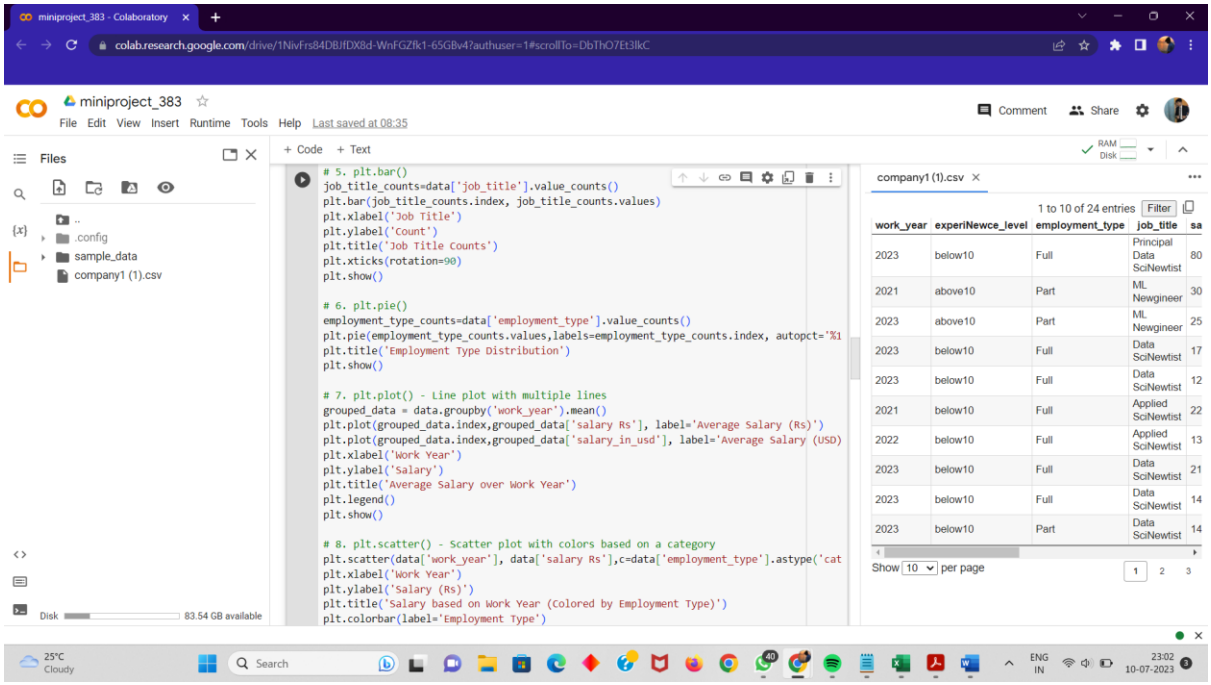
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# 5. plt.bar()
job_title_counts=data['job_title'].value_counts()
plt.bar(job_title_counts.index, job_title_counts.values)
plt.xlabel('Job Title')
plt.ylabel('Count')
plt.title('Job Title Counts')
plt.xticks(rotation=90)
plt.show()
# 6. plt.pie()
employment_type_counts=data['employment_type'].value_counts()
plt.pie(employment_type_counts.values,labels=employment_type_counts.index, autopct='%1
plt.title('Employment Type Distribution')
plt.show()
# 7. plt.plot() - Line plot with multiple lines
grouped_data = data.groupby('work_year').mean()
plt.plot(grouped_data.index,grouped_data['salary Rs'], label='Average Salary (Rs)')
plt.plot(grouped_data.index,grouped_data['salary_in_usd'], label='Average Salary (USD)
plt.xlabel('Work Year')
plt.ylabel('Salary')
plt.title('Average Salary over Work Year')
plt.legend()
plt.show()
# 8. plt.scatter() - Scatter plot with colors based on a category
plt.scatter(data['work_year'], data['salary Rs'],c=data['employment_type'].astype('cat
plt.xlabel('Work Year')
plt.ylabel('Salary (Rs)')
plt.title('Salary based on Work Year (Colored by Employment Type)')
plt.colorbar(label='Employment Type')
company1 (1).csv
1 to 10 of 24 entries Filter
work_year experiNewce_level employment_type job_title sa
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2023 below10 Full Data SciNewtist 21
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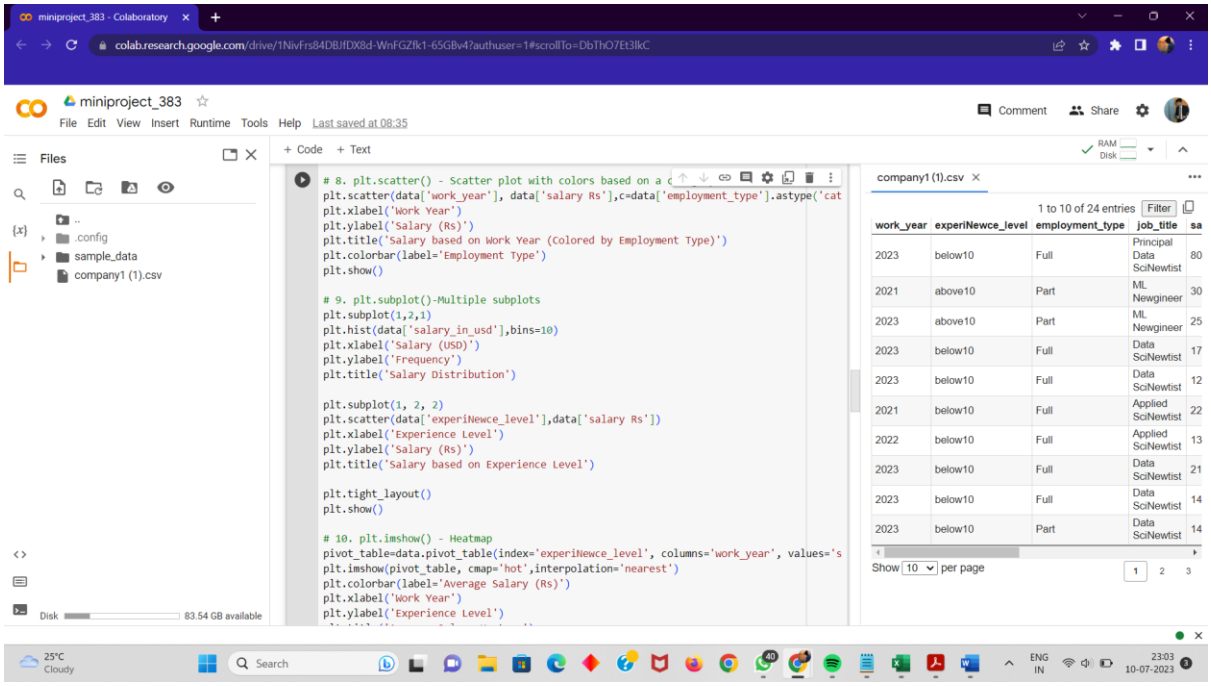
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8. plt.scatter() - Scatter plot with colors based on a c
plt.scatter(data['work_year'], data['salary Rs'],c=data['employment_type'].astype('cat
plt.xlabel('Work Year')
plt.ylabel('Salary (Rs)')
plt.title('Salary based on Work Year (Colored by Employment Type)')
plt.colorbar(label='Employment Type')
plt.show()
# 9. plt.subplot()-Multiple subplots
plt.subplot(1,2,1)
plt.hist(data['salary_in_usd'],bins=10)
plt.xlabel('Salary (USD)')
plt.ylabel('Frequency')
plt.title('Salary Distribution')
plt.subplot(1, 2, 2)
plt.scatter(data['experiNewce_level'],data['salary Rs'])
plt.xlabel('Experience Level')
plt.ylabel('Salary (Rs)')
plt.title('Salary based on Experience Level')
plt.tight_layout()
plt.show()
# 10. plt.imshow() - Heatmap
pivot_table=data.pivot_table(index='experiNewce_level', columns='work_year', values='s
plt.imshow(pivot_table, cmap='hot',interpolation='nearest')
plt.colorbar(label='Average Salary (Rs)')
plt.xlabel('Work Year')
plt.ylabel('Experience Level')
company1 (1).csv
1 to 10 of 24 entries Filter
work_year experiNewce_level employment_type job_title sa
2023 below10 Full Principal Data SciNewtist 80
2021 above10 Part ML Newgineer 30
2023 above10 Part ML Newgineer 25
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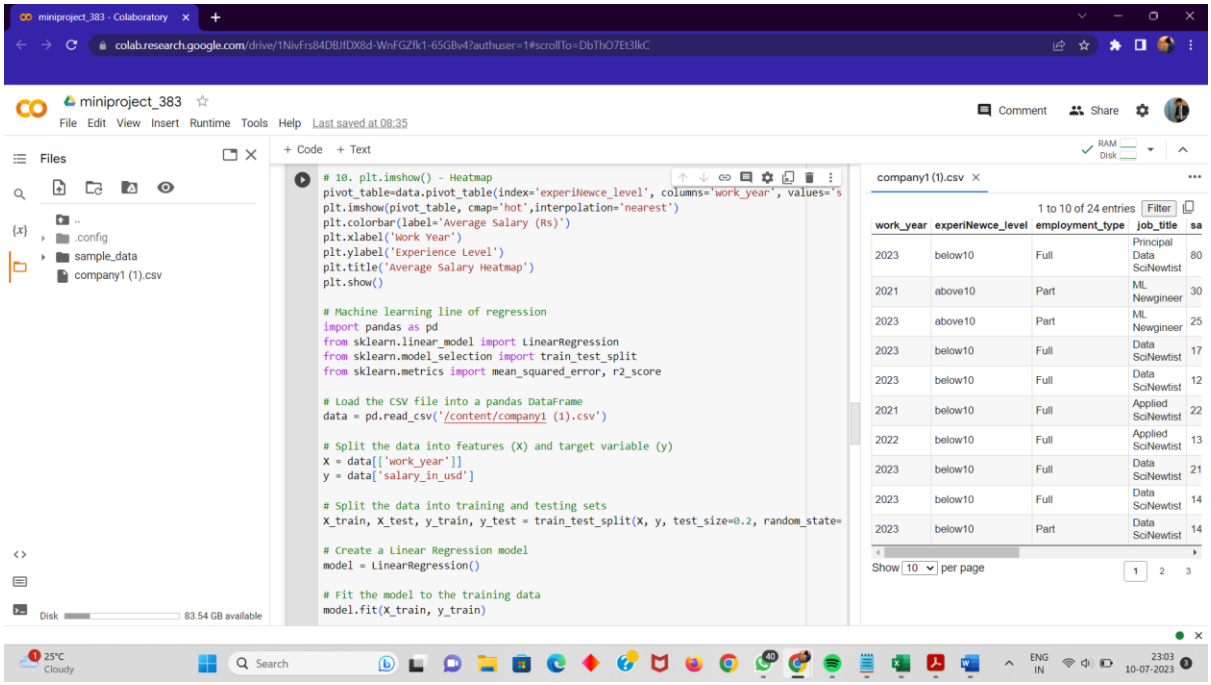
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# 10. plt.imshow() - Heatmap
pivot_table=data.pivot_table(index='experiNewce_level', columns='work_year', values='s
plt.imshow(pivot_table, cmap='hot',interpolation='nearest')
plt.colorbar(label='Average Salary (Rs)')
plt.xlabel('Work Year')
plt.ylabel('Experience Level')
plt.title('Average Salary Heatmap')
plt.show()
# Machine learning line of regression
import pandas as pd
from sklearn.linear_model import LinearRegression
from sklearn.model_selection import train_test_split
from sklearn.metrics import mean_squared_error, r2_score
# Load the CSV file into a pandas DataFrame
data = pd.read_csv('/content/company1 (1).csv')
# Split the data into features (X) and target variable (y)
X = data[['work_year']]
y = data['salary_in_usd']
# Split the data into training and testing sets
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.2, random_state=
# Create a Linear Regression model
model = LinearRegression()
# Fit the model to the training data
model.fit(X_train, y_train)
company1 (1).csv
1 to 10 of 24 entries Filter
work_year experiNewce_level employment_type job_title sa
2023 below10 Full Principal Data SciNewtist 80
2021 above10 Part ML Newgineer 30
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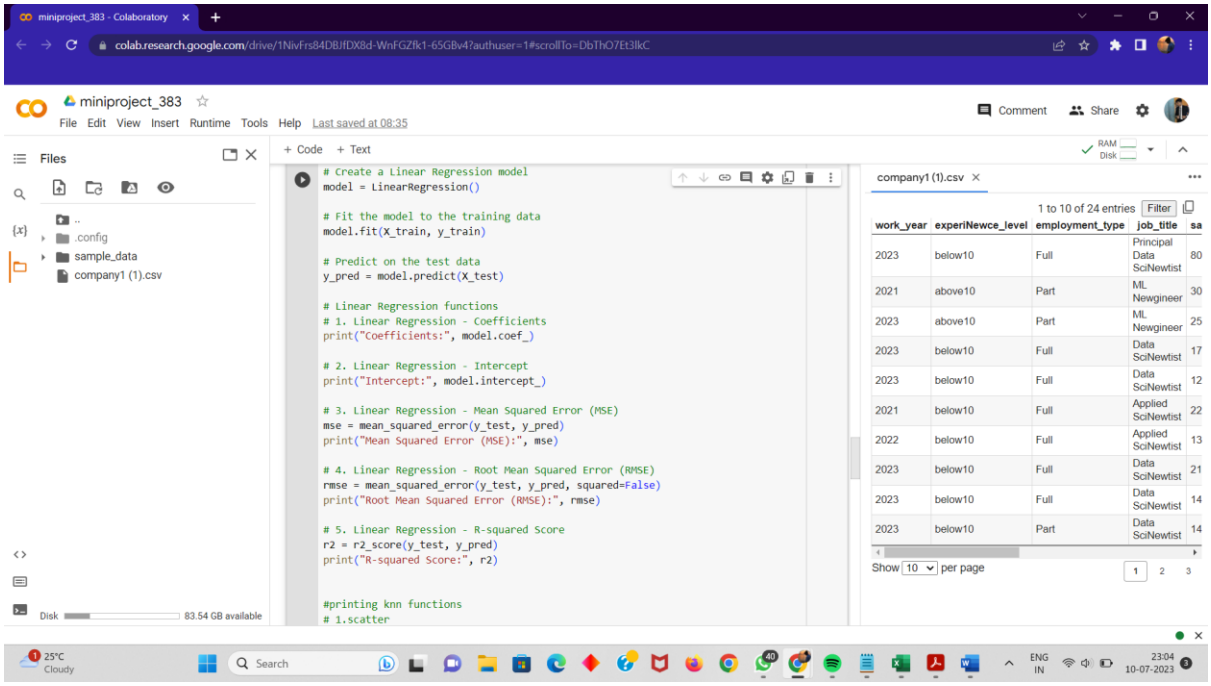
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# Create a Linear Regression model
model = LinearRegression()
# Fit the model to the training data
model.fit(X_train, y_train)
# Predict on the test data
y_pred = model.predict(X_test)
# Linear Regression functions
# 1. Linear Regression - Coefficients
print("Coefficients:", model.coef_)
# 2. Linear Regression - Intercept
print("Intercept:", model.intercept_)
# 3. Linear Regression - Mean Squared Error (MSE)
mse = mean_squared_error(y_test, y_pred)
print("Mean Squared Error (MSE):", mse)
# 4. Linear Regression - Root Mean Squared Error (RMSE)
rmse = mean_squared_error(y_test, y_pred, squared=False)
print("Root Mean Squared Error (RMSE):", rmse)
# 5. Linear Regression - R-squared Score
r2 = r2_score(y_test, y_pred)
print("R-squared Score:", r2)
#printing knn functions
1.scatter
company1 (1).csv
1 to 10 of 24 entries Filter
work_year experiNewce_level employment_type job_title sa
2023 below10 Full Principal Data SciNewtist 80
2021 above10 Part ML Newgineer 30
2023 above10 Part ML Newgineer 25
2023 below10 Full Data SciNewtist 17
2023 below10 Full Data SciNewtist 12
2021 below10 Full Applied SciNewtist 22
2022 below10 Full Applied SciNewtist 13
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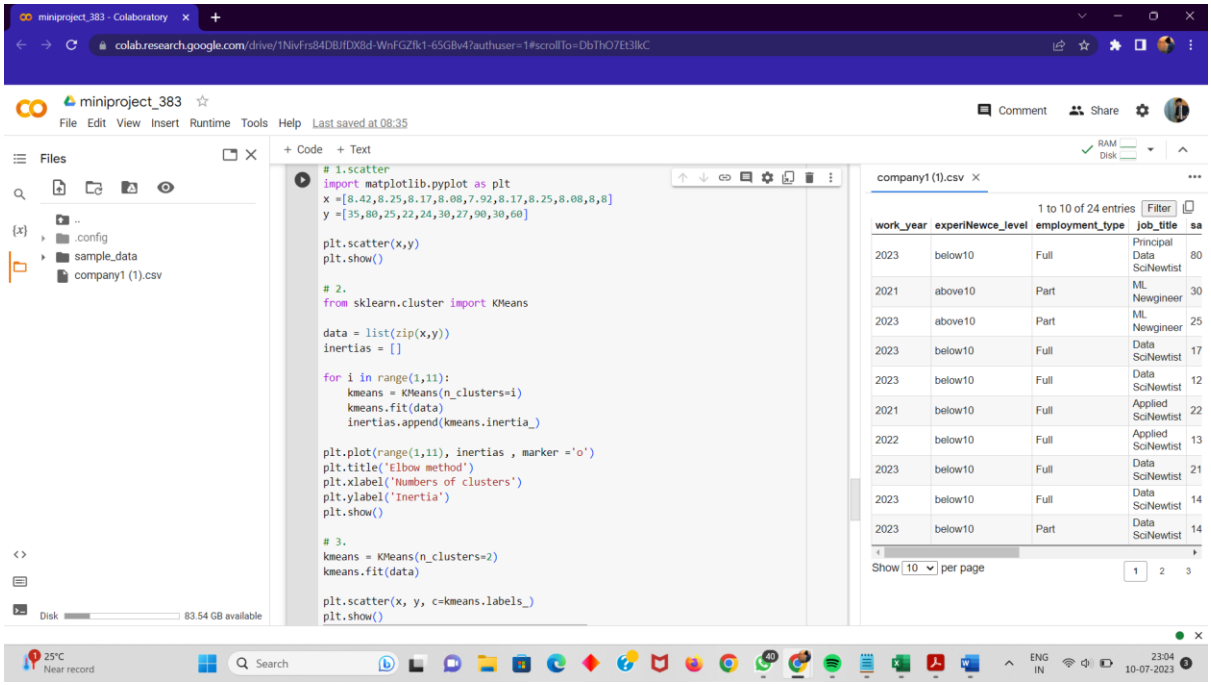
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# 1.scatter
import matplotlib.pyplot as plt
x =[8.42,8.25,8.17,8.08,7.92,8.17,8.25,8.08,8,8]
y =[35,80,25,22,24,30,27,90,30,60]
plt.scatter(x,y)
plt.show()
# 2.
from sklearn.cluster import KMeans
data = list(zip(x,y))
inertias = []
for i in range(1,11):
kmeans = KMeans(n_clusters=i)
kmeans.fit(data)
inertias.append(kmeans.inertia_)
plt.plot(range(1,11), inertias , marker ='o')
plt.title('Elbow method')
plt.xlabel('Numbers of clusters')
plt.ylabel('Inertia')
plt.show()
# 3.
kmeans = KMeans(n_clusters=2)
kmeans.fit(data)
plt.scatter(x, y, c=kmeans.labels_)
plt.show()
company1 (1).csv
1 to 10 of 24 entries Filter
work_year experiNewce_level employment_type job_title sa
2023 below10 Full Principal Data SciNewtist 80
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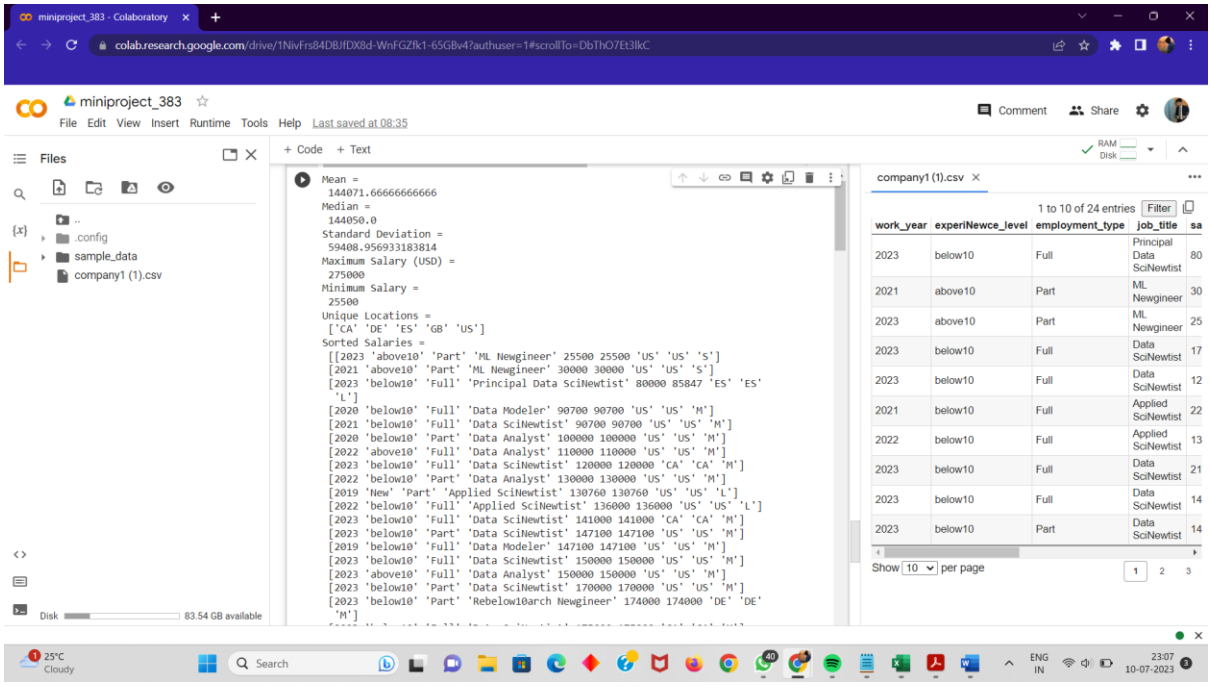
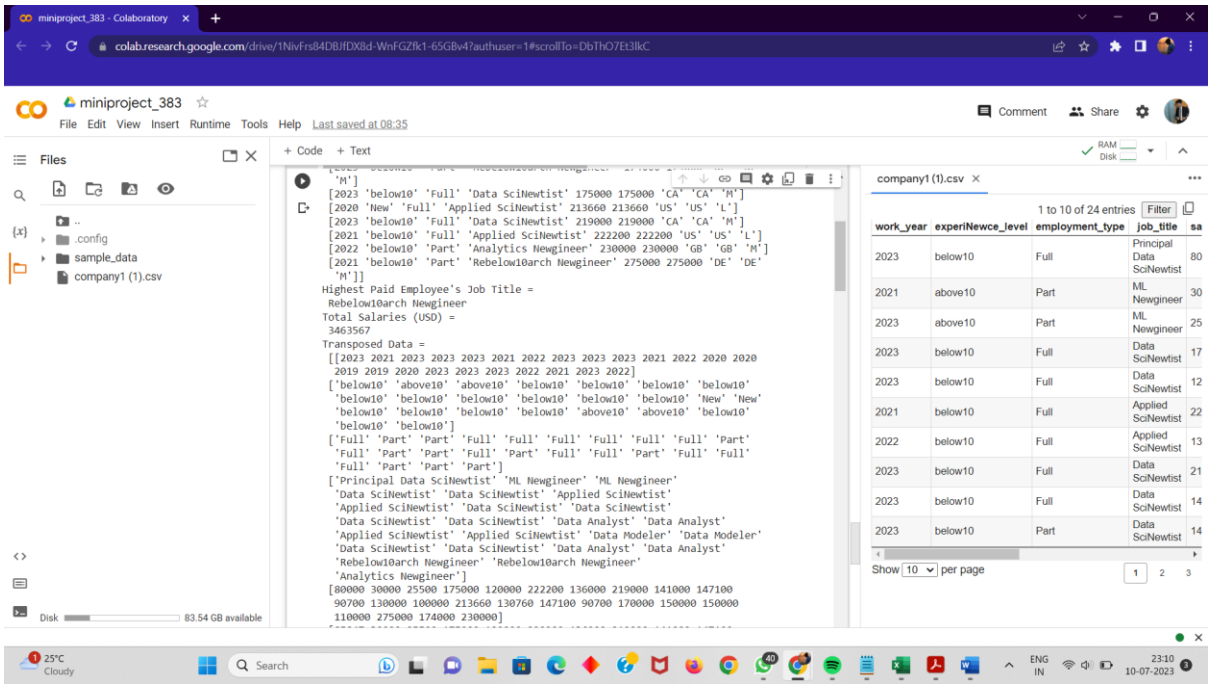
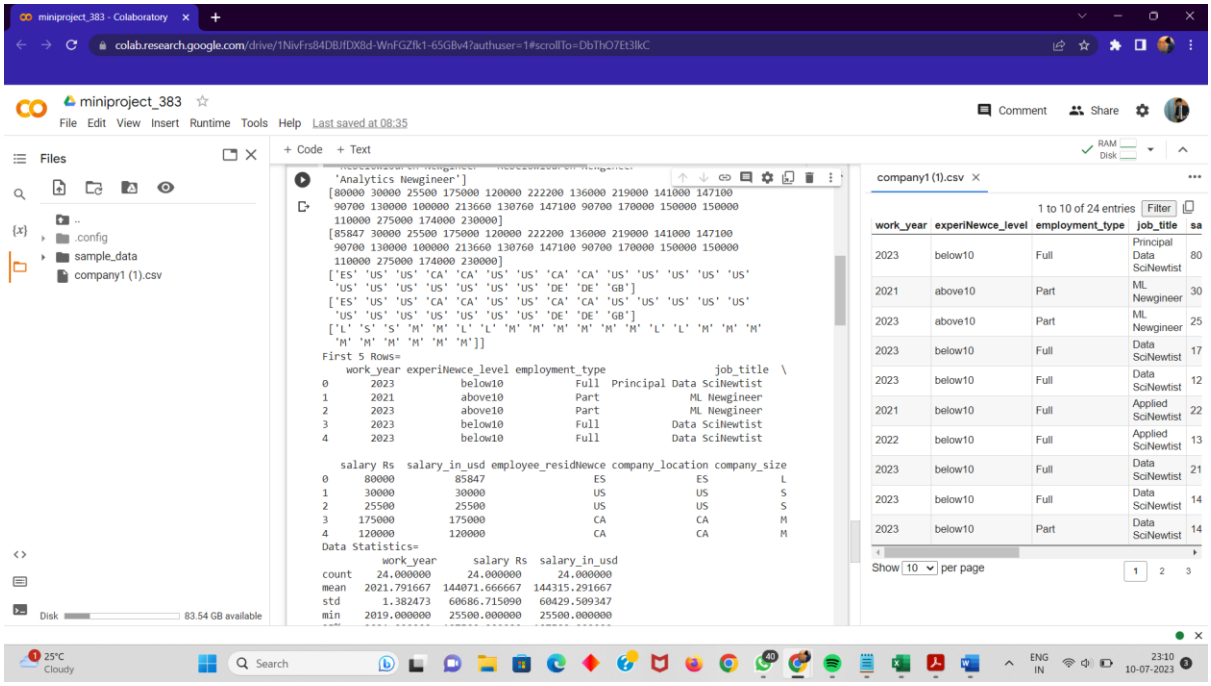
OUTPUT OF MN PROJECT



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110000 275000 174000 230000]
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90700 130000 100000 213660 130760 147100 90700 170000 150000 150000
110000 275000 174000 230000]
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1 2021 above10 Part ML Newgineer
2 2023 above10 Part ML Newgineer
3 2023 below10 Full Data SciNewtist
4 2023 below10 Full Data SciNewtist
salary Rs salary_in_usd employee_residNewce company_location company_size
0 80000 85847 ES ES L
1 30000 30000 US US S
2 25500 25500 US US S
3 175000 175000 CA CA M
4 120000 120000 CA CA M
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std 1.382473 60686.715090 60429.509347
min 2019.000000 25500.000000 25500.000000
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1 to 10 of 24 entries Filter
work_year experiNewce_level employment_type job_title sa
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2021 above10 Part ML Newgineer 30
2023 above10 Part ML Newgineer 25
2023 below10 Full Data SciNewtist 17
2023 below10 Full Data SciNewtist 12
2021 below10 Full Applied SciNewtist 22
2022 below10 Full Applied SciNewtist 13
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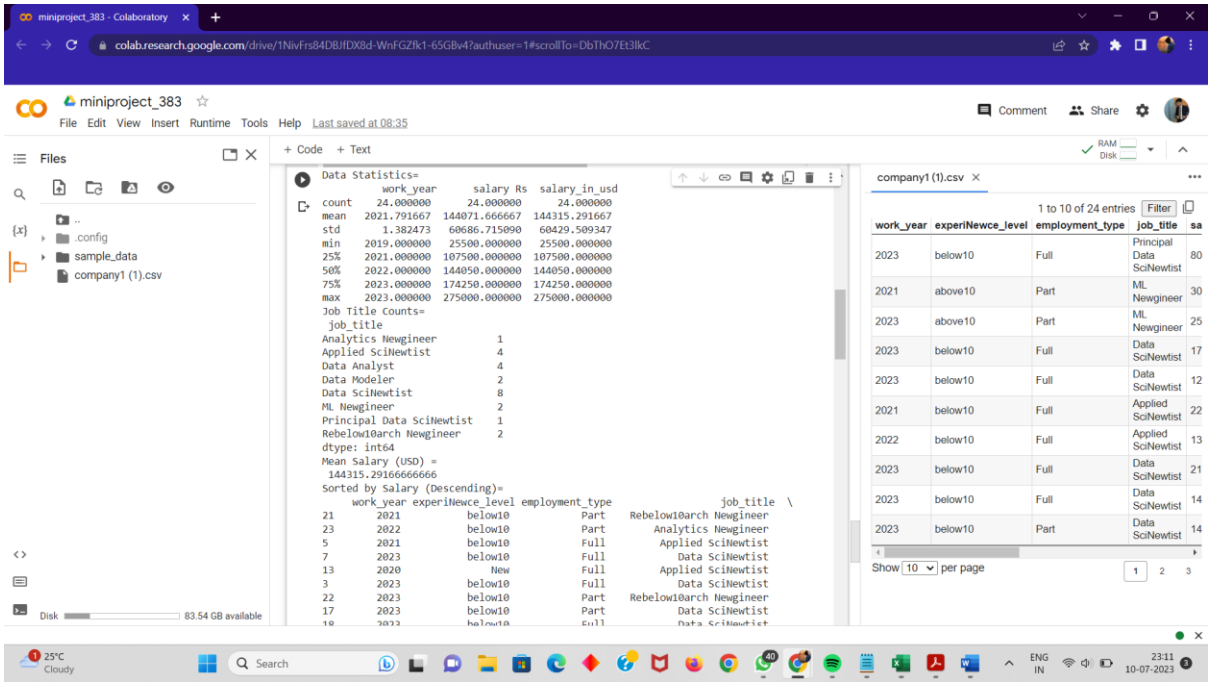
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count 24.000000 24.000000 24.000000
mean 2021.791667 144071.666667 144315.291667
std 1.382473 60686.715090 60429.509347
min 2019.000000 25500.000000 25500.000000
25% 2021.000000 107500.000000 107500.000000
50% 2022.000000 144050.000000 144050.000000
75% 2023.000000 174250.000000 174250.000000
max 2023.000000 275000.000000 275000.000000
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Applied SciNewtist 4
Data Analyst 4
Data Modeler 2
Data SciNewtist 8
ML Newgineer 2
Principal Data SciNewtist 1
Rebelow10arch Newgineer 2
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Sorted by Salary (Descending)=
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21 2021 below10 Part Rebelow10arch Newgineer
23 2022 below10 Part Analytics Newgineer
5 2021 below10 Full Applied SciNewtist
7 2023 below10 Full Data SciNewtist
13 2020 New Full Applied SciNewtist
3 2023 below10 Full Data SciNewtist
22 2023 below10 Part Rebelow10arch Newgineer
17 2023 below10 Part Data SciNewtist
company1 (1).csv
1 to 10 of 24 entries Filter
work_year experiNewce_level employment_type job_title sa
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2021 above10 Part ML Newgineer 30
2023 above10 Part ML Newgineer 25
2023 below10 Full Data SciNewtist 17
2023 below10 Full Data SciNewtist 12
2021 below10 Full Applied SciNewtist 22
2022 below10 Full Applied SciNewtist 13
2023 below10 Full Data SciNewtist 21
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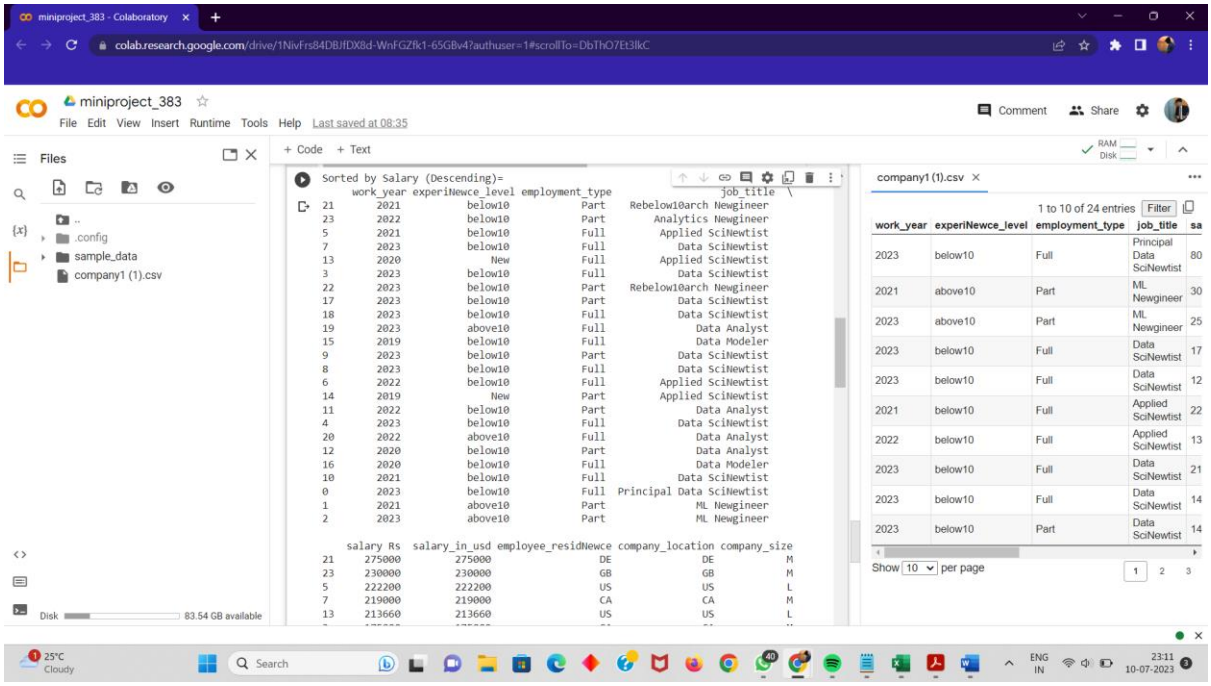
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Sorted by Salary (Descending)=
work_year experiNewce_level employment_type job_title \
21 2021 below10 Part Rebelow10arch Newgineer
23 2022 below10 Part Analytics Newgineer
5 2021 below10 Full Applied SciNewtist
7 2023 below10 Full Data SciNewtist
13 2020 New Full Applied SciNewtist
3 2023 below10 Full Data SciNewtist
22 2023 below10 Part Rebelow10arch Newgineer
17 2023 below10 Part Data SciNewtist
18 2023 below10 Full Data SciNewtist
19 2023 above10 Full Data Analyst
15 2019 below10 Full Data Modeler
9 2023 below10 Part Data SciNewtist
8 2023 below10 Full Data SciNewtist
6 2022 below10 Full Applied SciNewtist
14 2019 New Part Applied SciNewtist
11 2022 below10 Part Data Analyst
4 2023 below10 Full Data SciNewtist
20 2022 above10 Full Data Analyst
12 2020 below10 Part Data Analyst
16 2020 below10 Full Data Modeler
10 2021 below10 Full Data SciNewtist
0 2023 below10 Full Principal Data SciNewtist
1 2021 above10 Part ML Newgineer
2 2023 above10 Part ML Newgineer
salary Rs salary_in_usd employee_residNewce company_location company_size
21 275000 275000 DE DE M
23 230000 230000 GB GB M
5 222200 222200 US US L
7 219000 219000 CA CA M
13 213660 213660 US US L
company1 (1).csv
1 to 10 of 24 entries Filter
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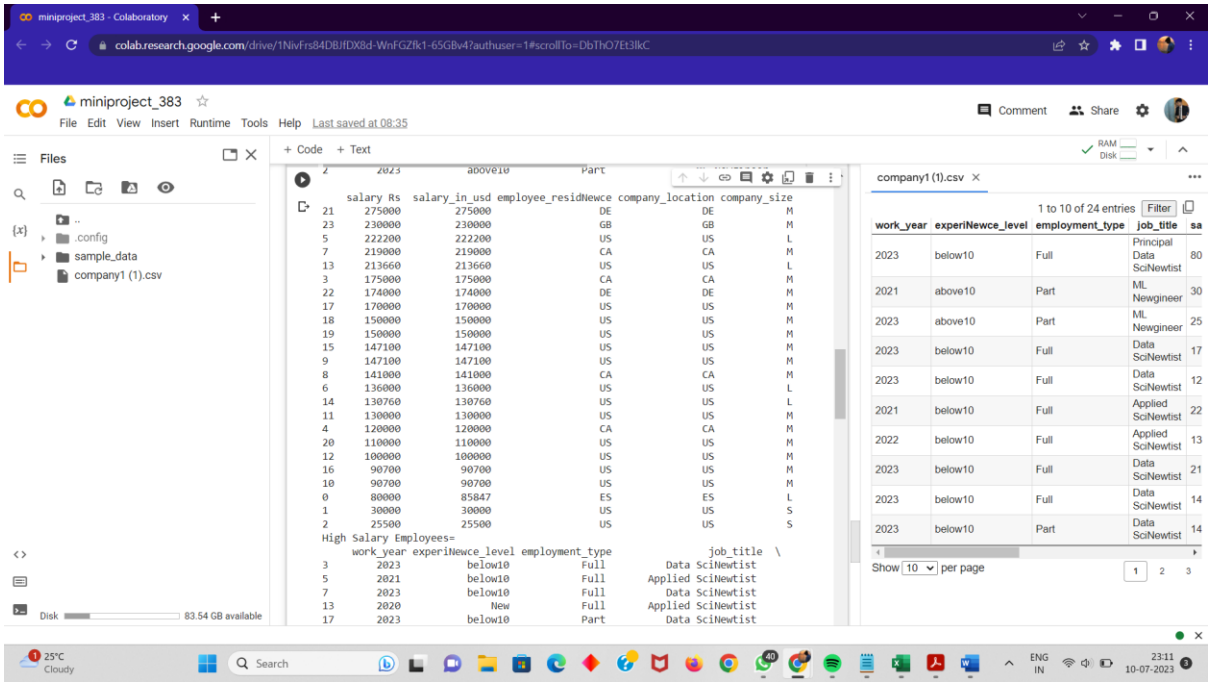
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2 2023 above10 Part
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21 275000 275000 DE DE M
23 230000 230000 GB GB M
5 222200 222200 US US L
7 219000 219000 CA CA M
13 213660 213660 US US L
3 175000 175000 CA CA M
22 174000 174000 DE DE M
17 170000 170000 US US M
18 150000 150000 US US M
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15 147100 147100 US US M
9 147100 147100 US US M
8 141000 141000 CA CA M
6 136000 136000 US US L
14 130760 130760 US US L
11 130000 130000 US US M
4 120000 120000 CA CA M
20 110000 110000 US US M
12 100000 100000 US US M
16 90700 90700 US US M
10 90700 90700 US US M
0 80000 85847 ES ES L
1 30000 30000 US US S
2 25500 25500 US US S
High Salary Employees=
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3 2023 below10 Full Data SciNewtist
5 2021 below10 Full Applied SciNewtist
7 2023 below10 Full Data SciNewtist
13 2020 New Full Applied SciNewtist
17 2023 below10 Part Data SciNewtist
company1 (1).csv
1 to 10 of 24 entries Filter
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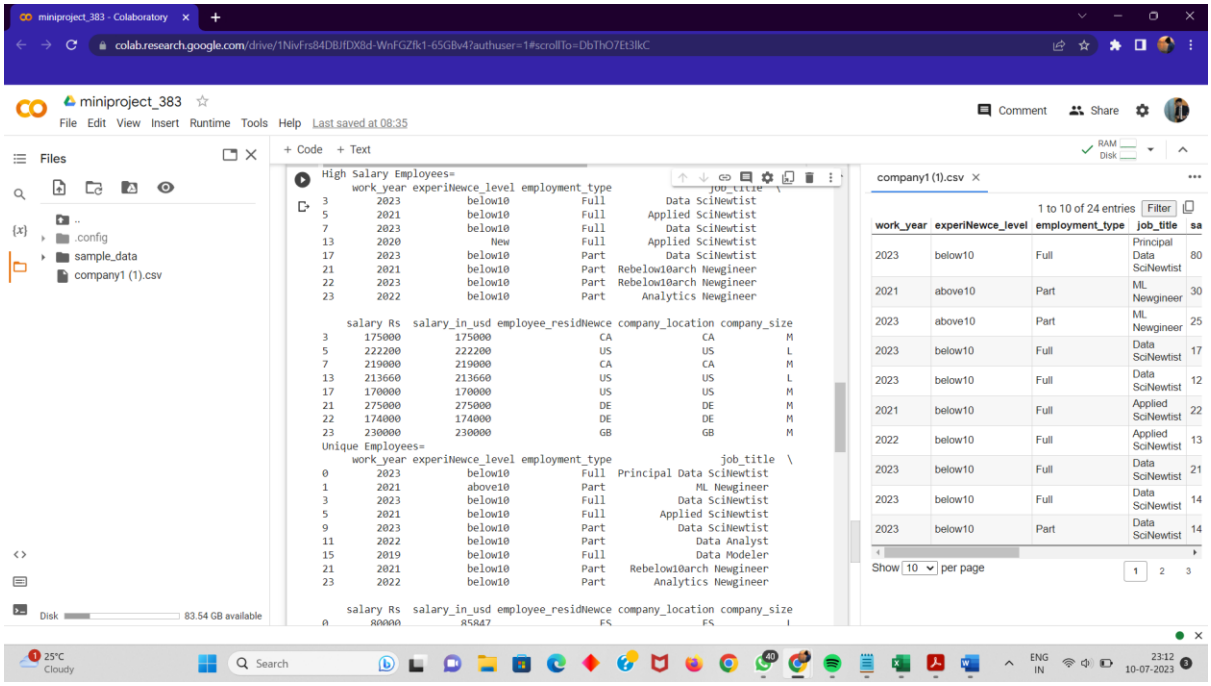
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17 2023 below10 Part Data SciNewtist
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5 222200 222200 US US L
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salary Rs salary_in_usd employee_residNewce company_location company_size
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1 to 10 of 24 entries Filter
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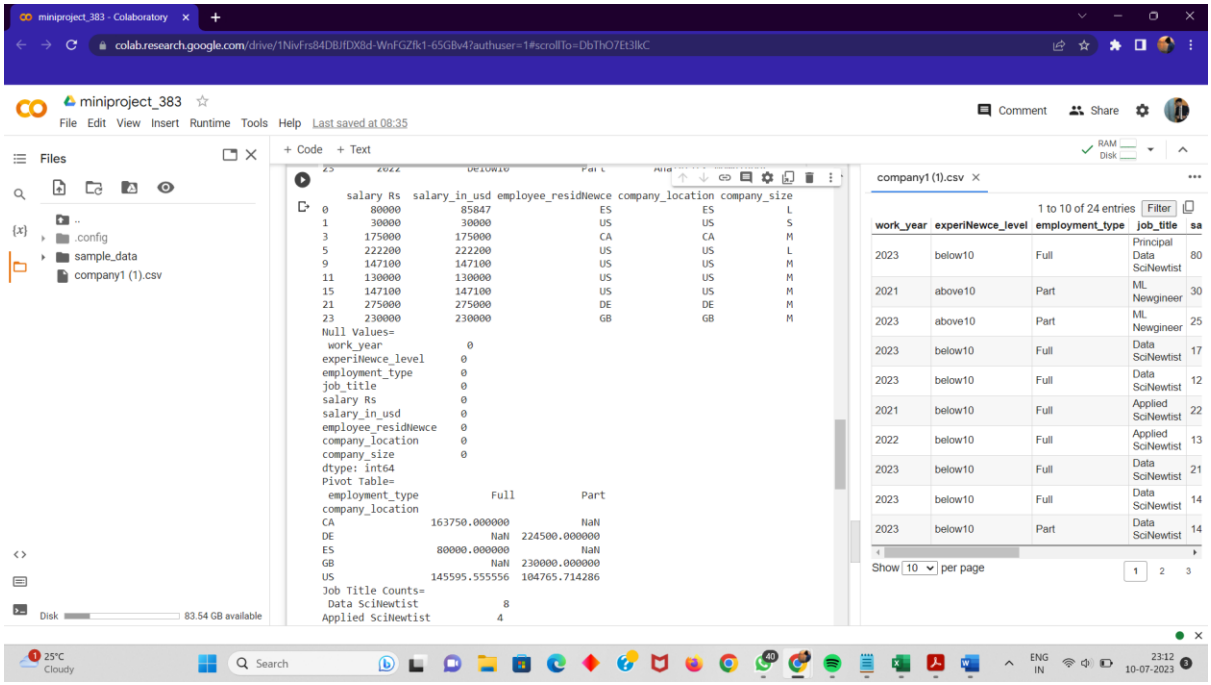
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3 175000 175000 CA CA M
5 222200 222200 US US L
9 147100 147100 US US M
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15 147100 147100 US US M
21 275000 275000 DE DE M
23 230000 230000 GB GB M
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DE NaN 224500.000000
ES 80000.000000 NaN
GB NaN 230000.000000
US 145595.555556 104765.714286
Job Title Counts=
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Applied SciNewtist 4
company1 (1).csv
1 to 10 of 24 entries Filter
work_year experiNewce_level employment_type job_title sa
2023 below10 Full Principal Data SciNewtist 80
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25°C Cloudy
Search
ENG IN
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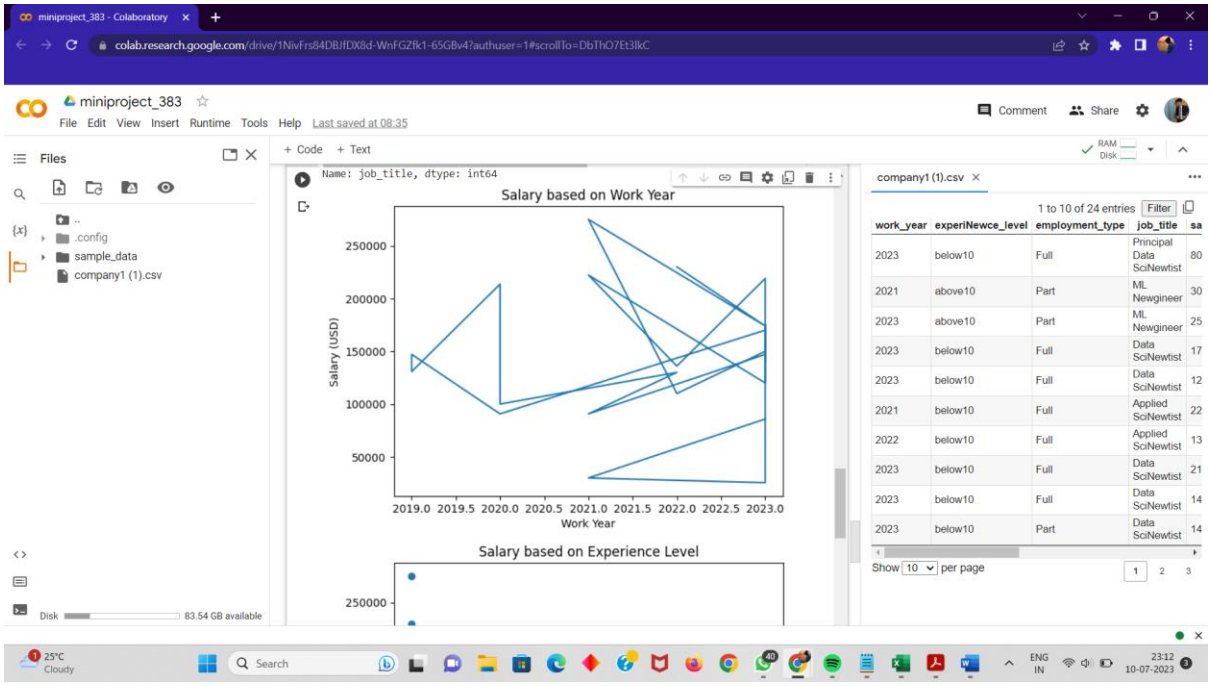
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Share
Files
+ Code + Text
Name: job_title, dtype: int64
Salary based on Work Year
Salary (USD)
Work Year
Salary based on Experience Level
company1 (1).csv
1 to 10 of 24 entries
Filter
work_year experiNewce_level employment_type job_title sa
2023 below10 Full Principal Data SciNewtist 80
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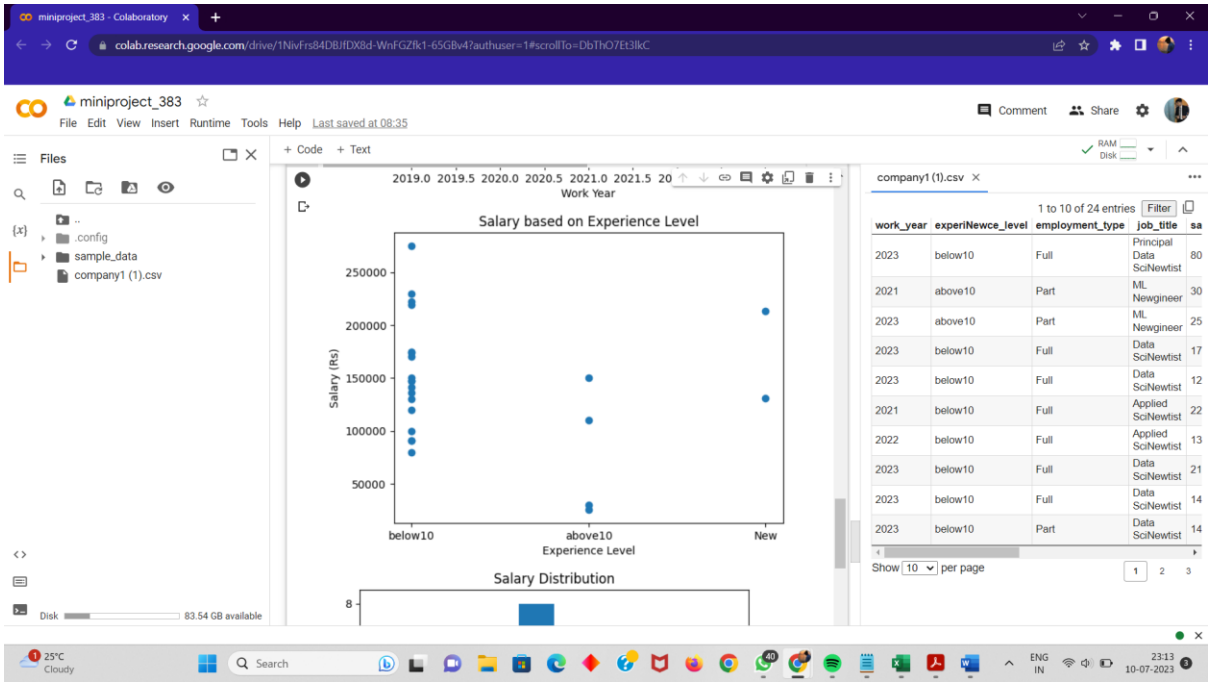
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Work Year
Salary based on Experience Level
Salary (Rs)
below10
above10
New
Experience Level
Salary Distribution
company1 (1).csv
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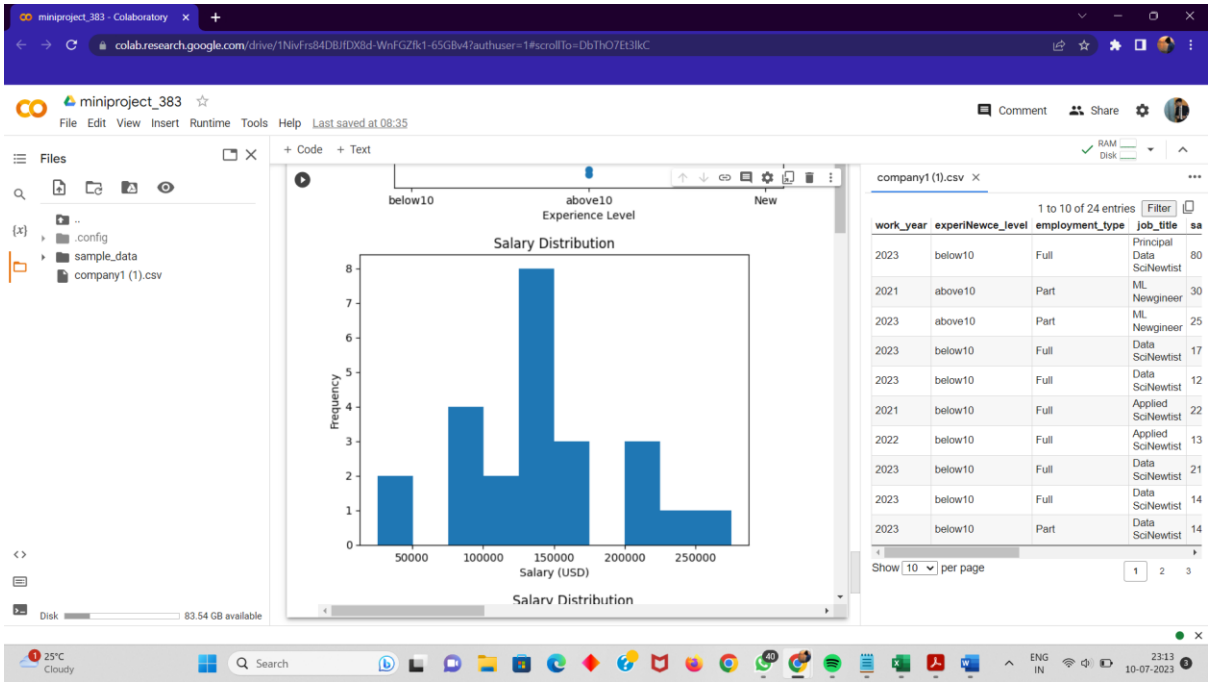
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Salary Distribution
Frequency
Salary (USD)
Salary Distribution
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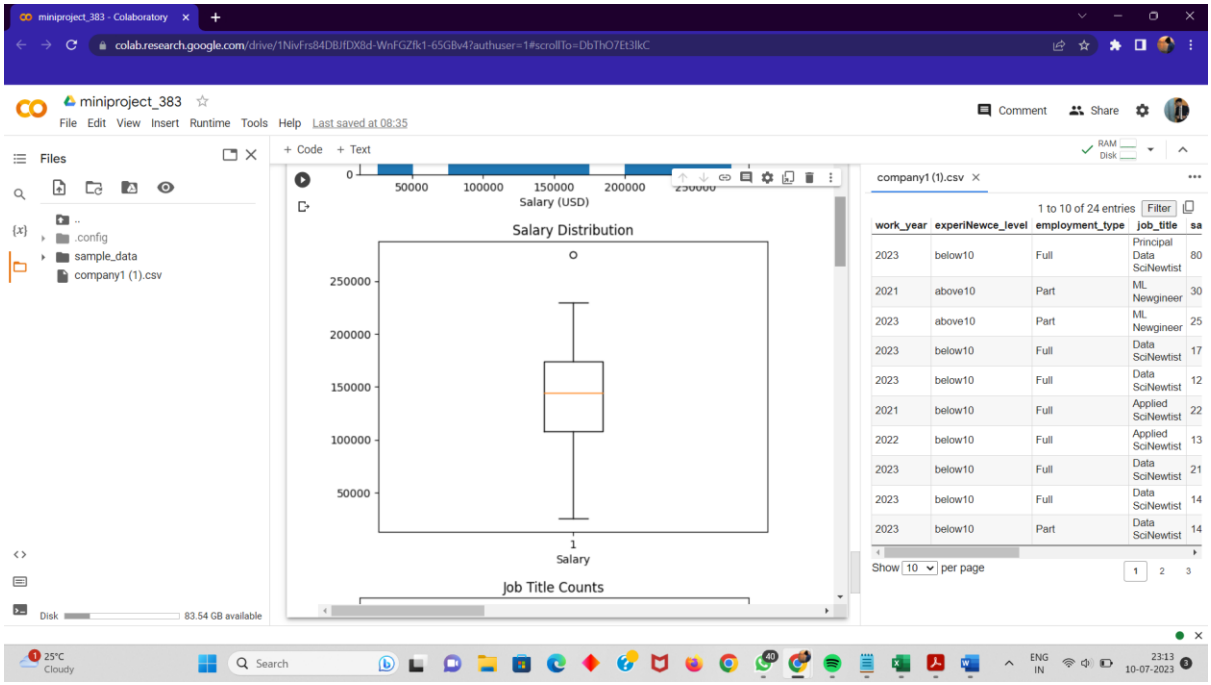
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Salary (USD)
Salary Distribution
Salary
Job Title Counts
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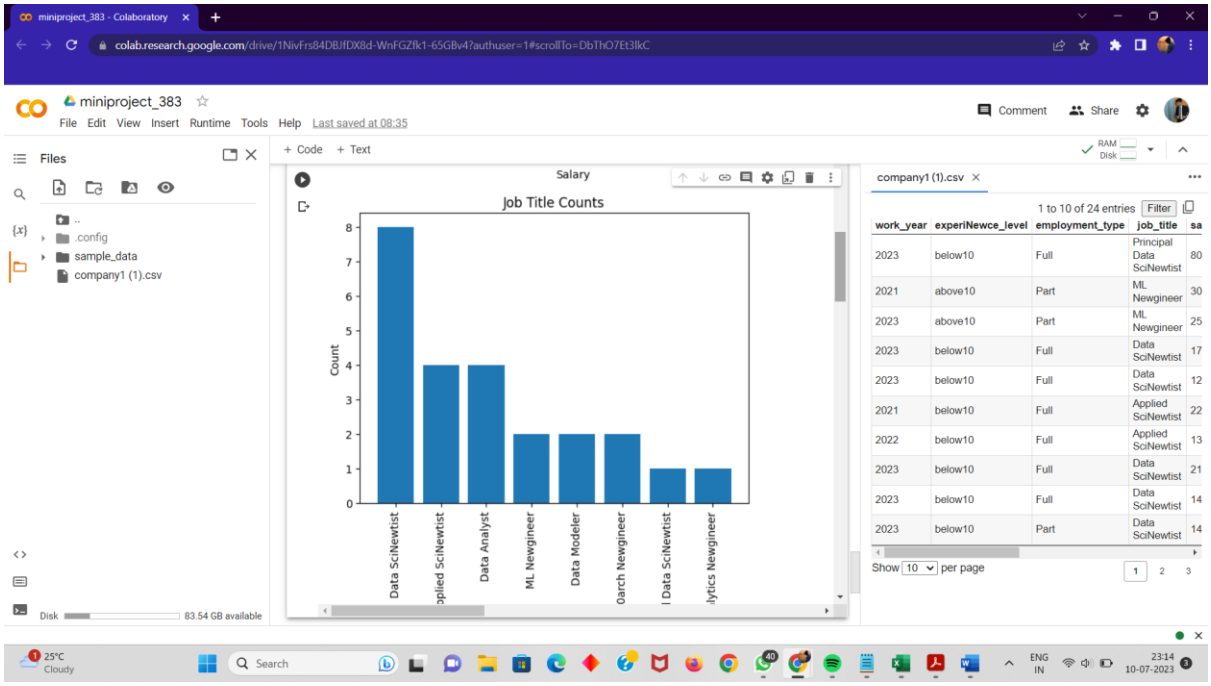
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Salary
Job Title Counts
Count
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Data Analyst
ML Newgineer
Data Modeler
Data SciNewtist
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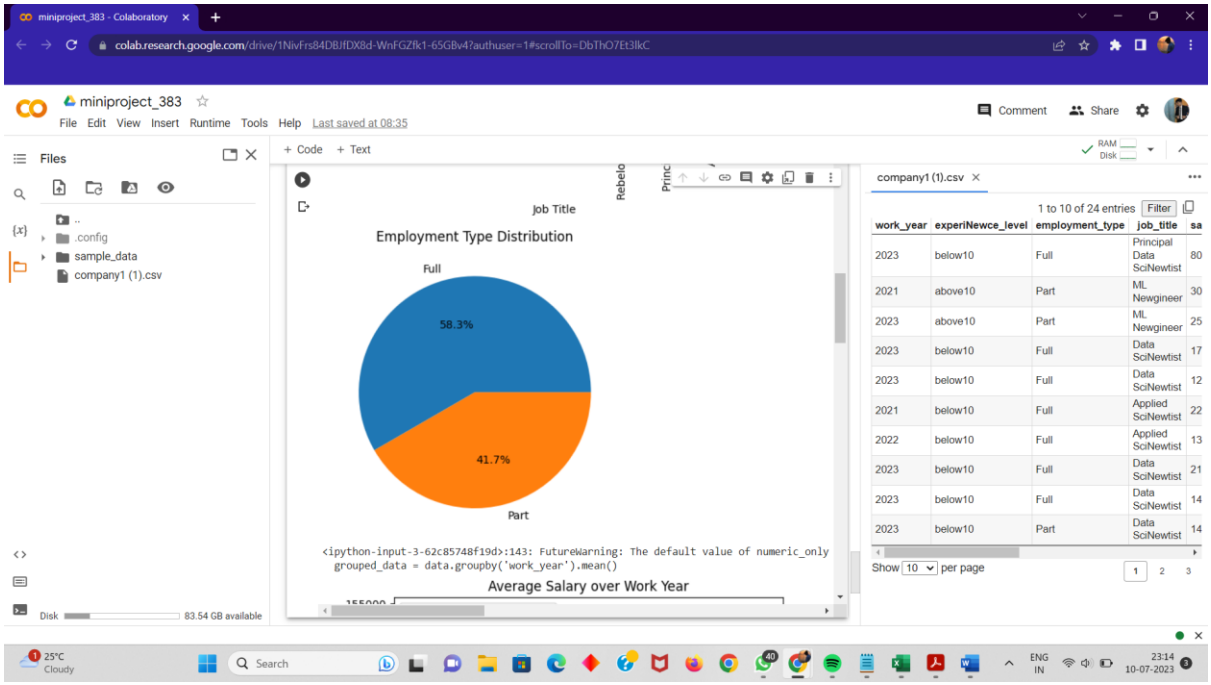
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miniproject_383
File Edit View Insert Runtime Tools Help Last saved at 08:35
Comment
Share
Files
+ Code + Text
Job Title
Employment Type Distribution
Full
58.3%
41.7%
Part
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Average Salary over Work Year
Disk 83.54 GB available
company1 (1).csv
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2021 above10 Part ML Newgineer 30
2023 above10 Part ML Newgineer 25
2023 below10 Full Data SciNewtist 17
2023 below10 Full Data SciNewtist 12
2021 below10 Full Applied SciNewtist 22
2022 below10 Full Applied SciNewtist 13
2023 below10 Full Data SciNewtist 21
2023 below10 Full Data SciNewtist 14
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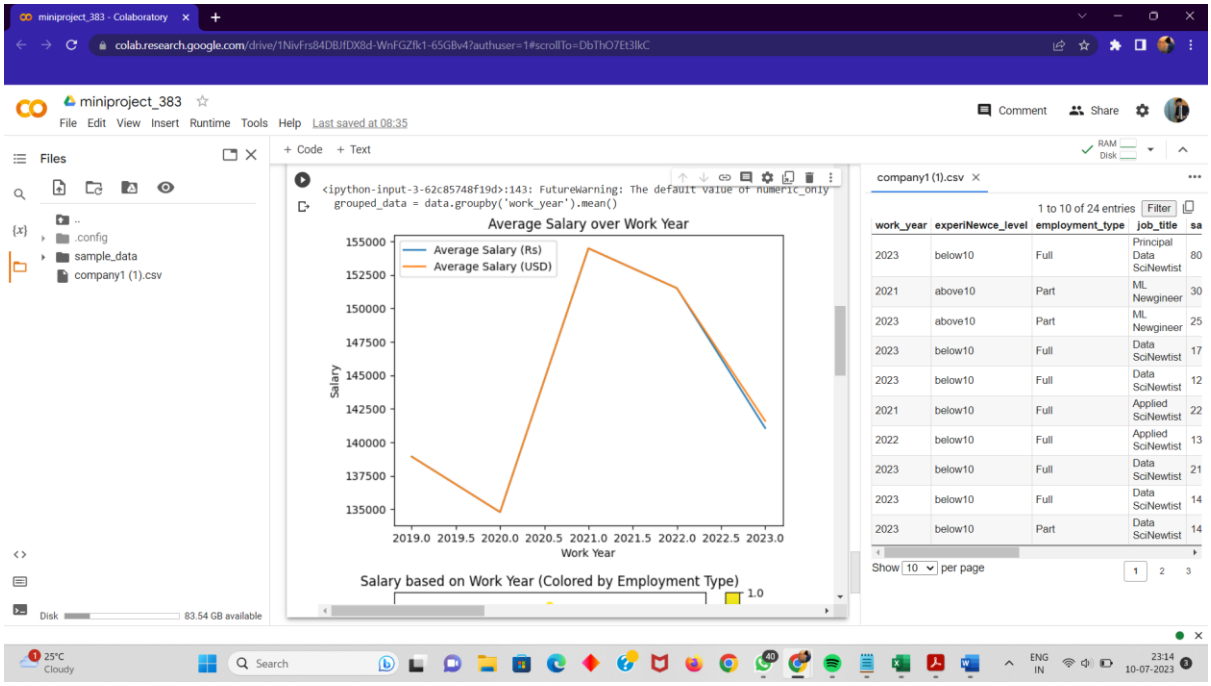
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sample_data
company1 (1).csv
Disk 83.54 GB available
<ipython-input-3-62c85748f19d>:143: FutureWarning: The default value of numeric_only
grouped_data = data.groupby('work_year').mean()
Average Salary over Work Year
Average Salary (Rs)
Average Salary (USD)
Salary
Work Year
Salary based on Work Year (Colored by Employment Type)
company1 (1).csv
1 to 10 of 24 entries
Filter
work_year experiNewce_level employment_type job_title sa
2023 below10 Full Principal Data SciNewtist 80
2021 above10 Part ML Newgineer 30
2023 above10 Part ML Newgineer 25
2023 below10 Full Data SciNewtist 17
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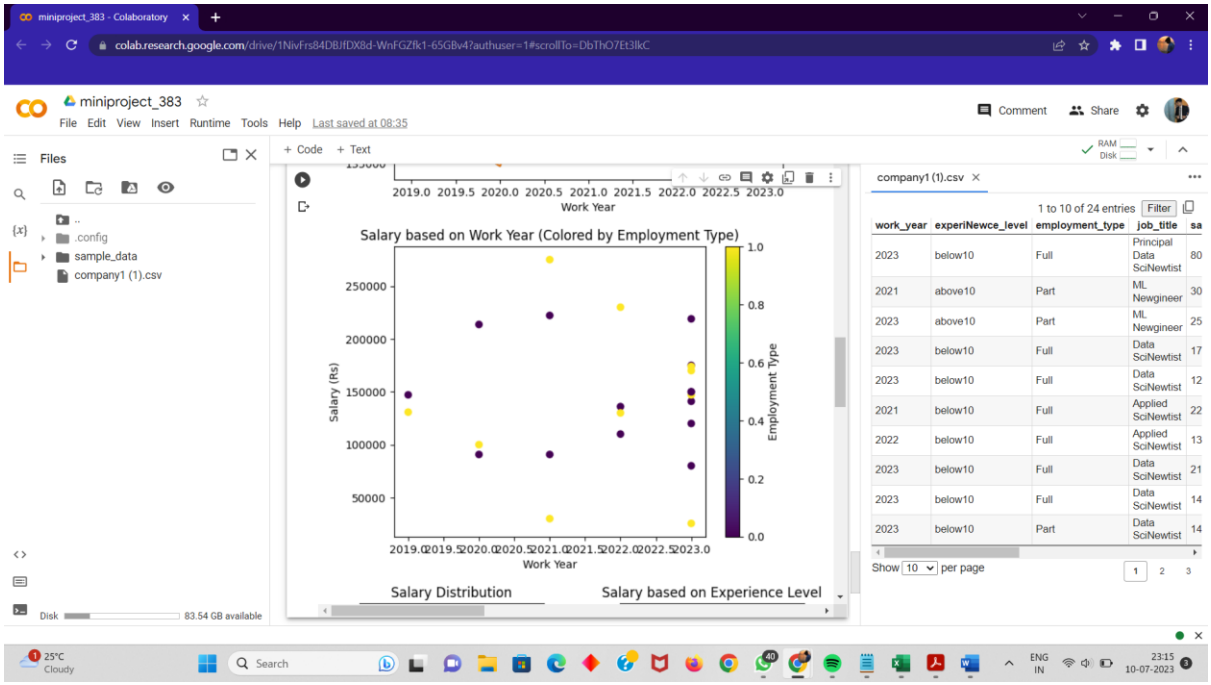
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sample_data
company1 (1).csv
Disk 83.54 GB available
Work Year
Salary based on Work Year (Colored by Employment Type)
Salary (Rs)
Employment Type
Salary Distribution
Salary based on Experience Level
company1 (1).csv
1 to 10 of 24 entries
Filter
work_year experiNewce_level employment_type job_title sa
2023 below10 Full Principal Data SciNewtist 80
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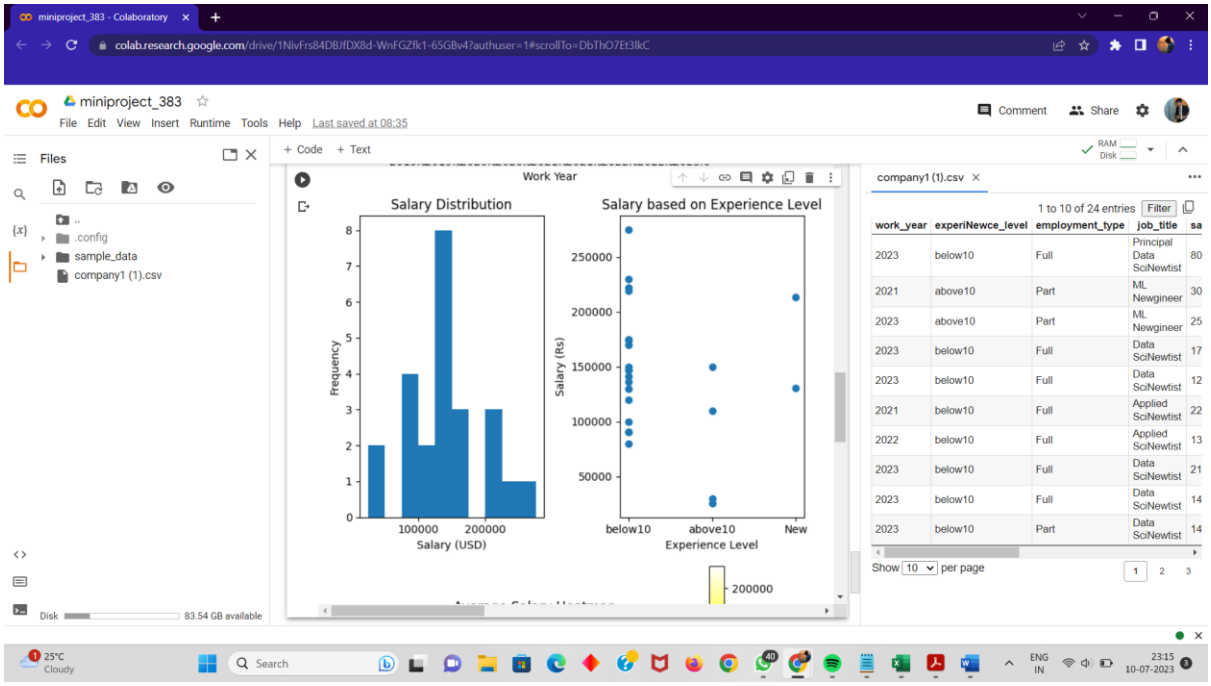
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Work Year
Salary Distribution
Frequency
Salary (USD)
Salary based on Experience Level
Salary (Rs)
below10
above10
New
Experience Level
company1 (1).csv
1 to 10 of 24 entries
Filter
work_year experiNewce_level employment_type job_title sa
2023 below10 Full Principal Data SciNewtist 80
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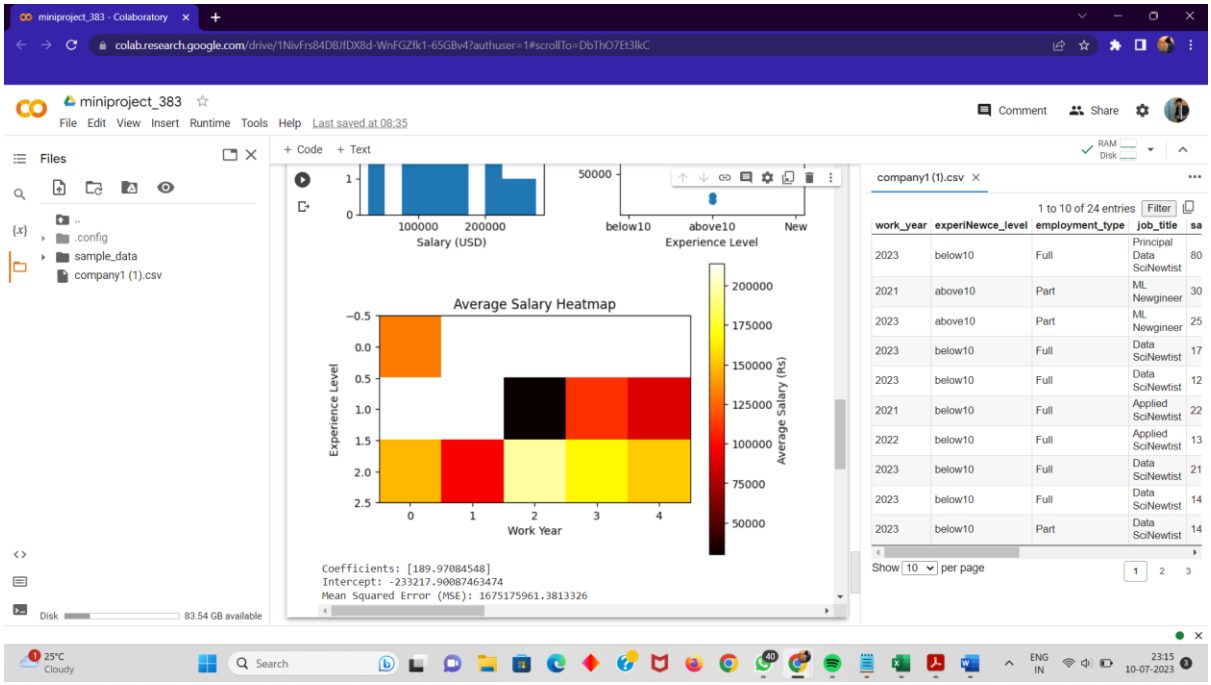
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Salary (USD)
Experience Level
Average Salary Heatmap
Experience Level
Work Year
Average Salary (Rs)
Coefficients: [189.97084548]
Intercept: -233217.90087463474
Mean Squared Error (MSE): 1675175961.3813326
company1 (1).csv
1 to 10 of 24 entries
Filter
work_year experiNewce_level employment_type job_title sa
2023 below10 Full Principal Data SciNewtist 80
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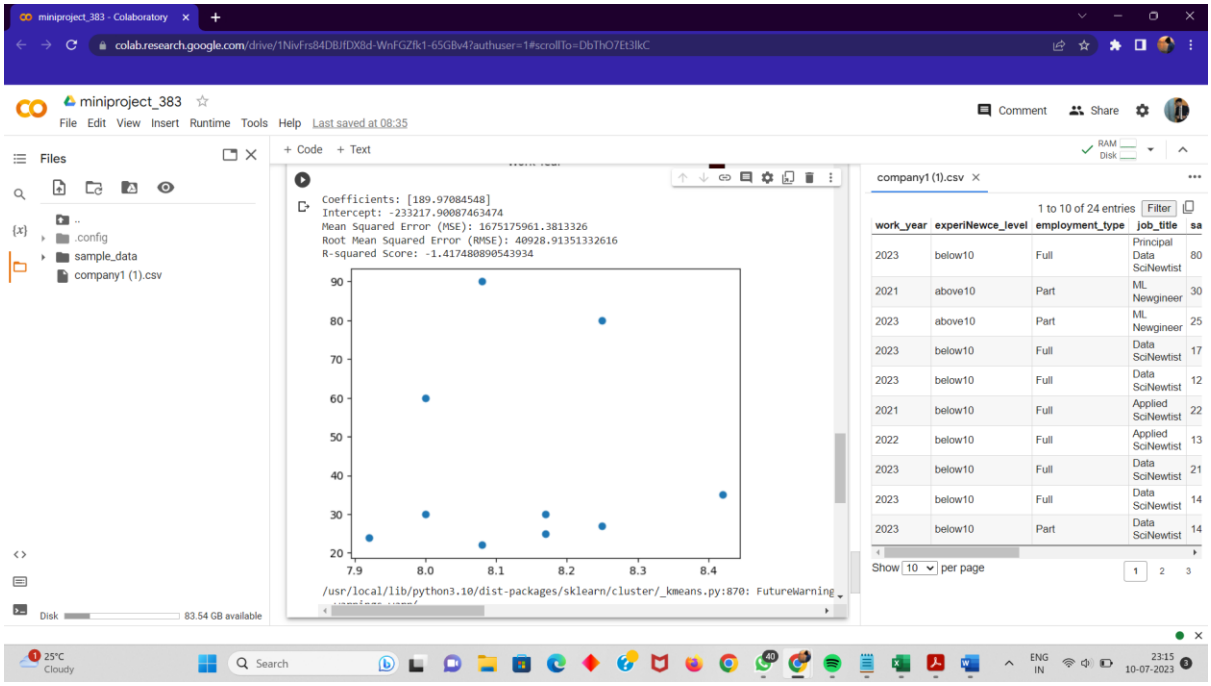
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miniproject_383
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Coefficients: [189.97084548]
Intercept: -233217.90087463474
Mean Squared Error (MSE): 1675175961.3813326
Root Mean Squared Error (RMSE): 40928.91351332616
R-squared Score: -1.417480890543934
/usr/local/lib/python3.10/dist-packages/sklearn/cluster/_kmeans.py:870: FutureWarning
company1 (1).csv
1 to 10 of 24 entries
Filter
work_year experiNewce_level employment_type job_title sa
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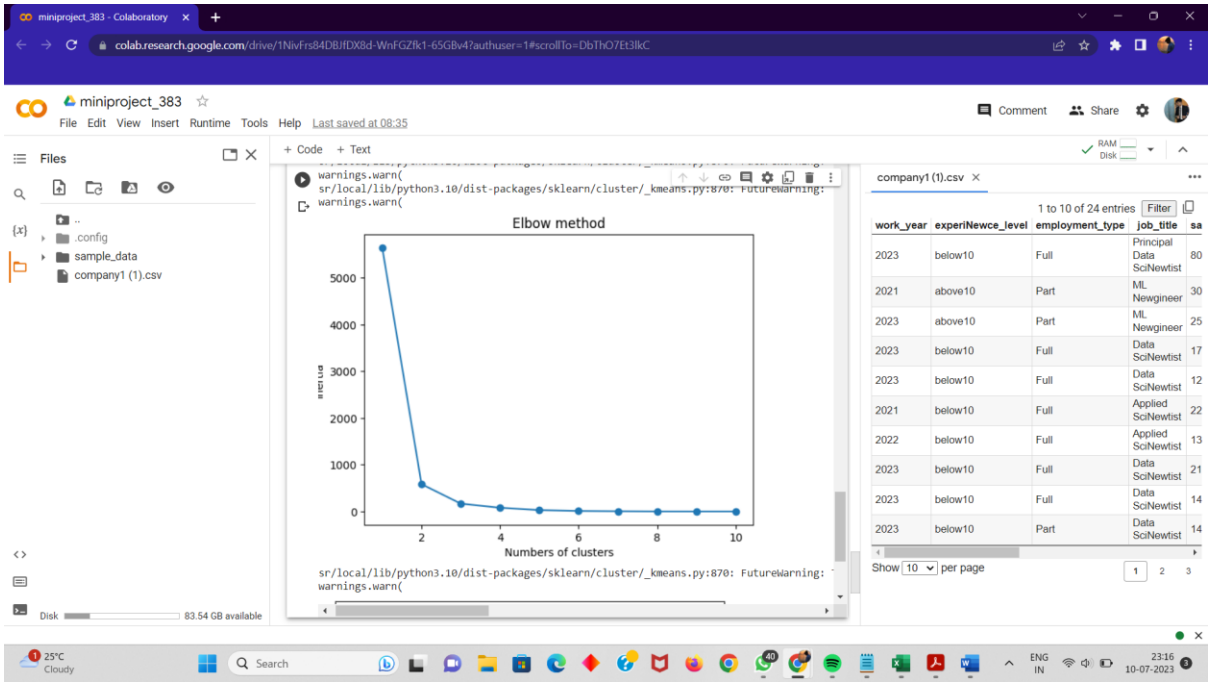
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warnings.warn(
sr/local/lib/python3.10/dist-packages/sklearn/cluster/_kmeans.py:870: FutureWarning:
warnings.warn(
Elbow method
inertia
Numbers of clusters
sr/local/lib/python3.10/dist-packages/sklearn/cluster/_kmeans.py:870: FutureWarning:
warnings.warn(
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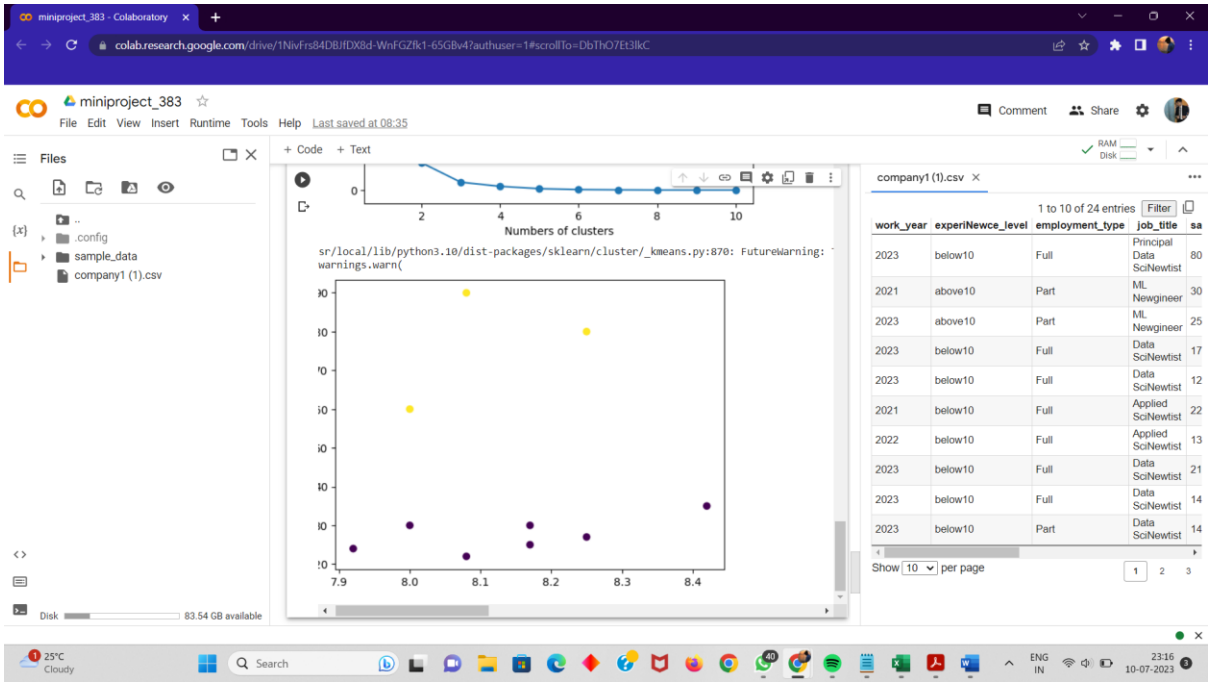
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RAM
Disk
Numbers of clusters
sr/local/lib/python3.10/dist-packages/sklearn/cluster/_kmeans.py:870: FutureWarning:
warnings.warn(
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