



Neural Assignment4.ipynb ☆

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Files



{x}
 ..
 sample_data
 Salary_Data.csv
 data.csv

+ Code + Text

```
[8] import pandas as pd

df = pd.read_csv('data.csv')

description = df.describe()

df.fillna(df.mean(), inplace=True)

selected_columns = ['Calories', 'Pulse']
agg_functions = {
    'Calories': ['min', 'max', 'count', 'mean'],
    'Pulse': ['min', 'max', 'count', 'mean']
}
aggregated_data = df[selected_columns].agg(agg_functions)

filtered_df1 = df[(df['Calories'] >= 500) & (df['Calories'] <= 1000)]
```

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selected_columns = ['Calories', 'Pulse']
agg_functions = {
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    'Pulse': ['min', 'max', 'count', 'mean']
}
aggregated_data = df[selected_columns].agg(agg_functions)

filtered_df1 = df[(df['calories'] >= 500) & (df['Calories'] <= 1000)]

filtered_df2 = df[(df['calories'] > 500) & (df['Pulse'] < 100)]

df_modified = df.drop(columns=['Maxpulse'])
```

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Snipping Tool

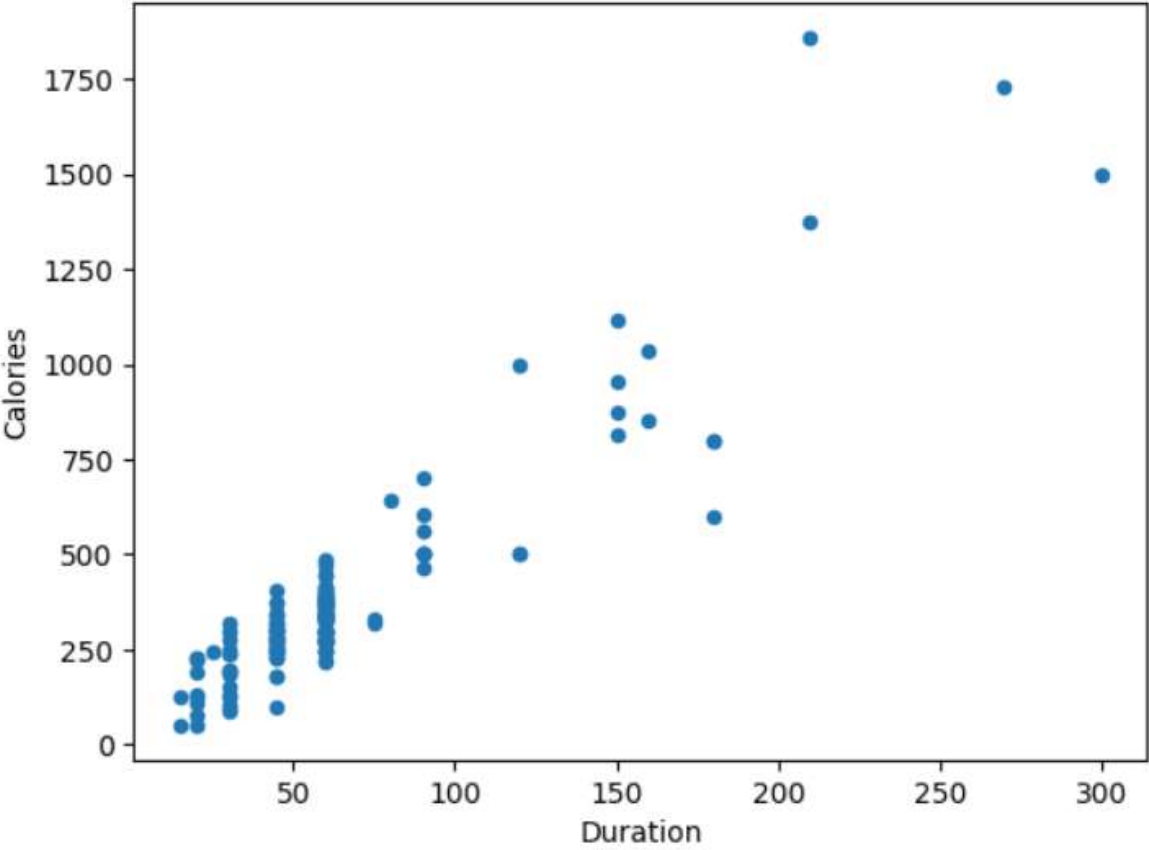
Screenshot copied to clipboard and saved

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Scatter Plot of Duration vs Calories



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```
print("Mean Squared Error (Train):", mse_train)
print("Mean Squared Error (Test):", mse_test)

plt.figure(figsize=(12, 6))

# Training data scatter plot
plt.subplot(1, 2, 1)
plt.scatter(X_train, y_train, color='red', label='Actual')
plt.plot(X_train, y_pred_train, color='yellow', linewidth=2, label='Predicted')
plt.title('Training Data')
plt.xlabel('Years of Experience')
plt.ylabel('Salary')
plt.legend()

plt.subplot(1, 2, 2)
plt.scatter(X_test, y_test, color='red', label='Actual')
plt.plot(X_test, y_pred_test, color='yellow', linewidth=2, label='Predicted')
plt.title('Test Data')
plt.xlabel('Years of Experience')
plt.ylabel('Salary')
plt.legend()

plt.tight_layout()
plt.show()
```

Mean Squared Error (Train): 29793161.082422983
Mean Squared Error (Test): 35301898.887134895

Training Data Test Data

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sample_data

Salary_Data.csv

data.csv

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