

EXPLORER

OPEN EDITORS

- Sprint6\_Test\_Concept1.2.py portal ... U
- ML374\_S6\_Concept\_Weather\_Clea... U
- Sprint6\_Test\_Concept1.1.ipynb po... U

STATISTICAL METHODS AND M...

- .env
- notes
- portal code
  - assignment
  - day1
  - day2
  - day4
  - day5
    - concept
    - practice
  - day6
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- ML374\_S6\_Concept\_... U
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- Sprint6\_Test\_Concept1.2.... U
- practice
- .gitignore
- .markdownlint.json
- readme.md
- syllabus.png
- syllabus.txt
- update-required.md

Sprint6\_Test\_Concept1.2.py U ML374\_S6\_Concept\_Weather\_Cleaned\_Data.csv U Sprint6\_Test\_Concept1.1.ipynb U

portal code > day6 > concept > Sprint6\_Test\_Concept1.1 > Sprint6\_Test\_Concept1.1.ipynb > # =====

Generate + Code + Markdown | Run All | Restart | Clear All Outputs | Jupyter Variables | Outline | .venv (Python 3.12.10)

```
y_pred = model.predict(X_test)
residuals = y_test - y_pred
```

[6] ✓ 0.0s Python

```
# =====
# 1. Scatter: actual data + regression line
# =====
plt.figure(figsize=(6,6))
plt.scatter(df['global_radiation'], df['temperature'], alpha=0.6)
plt.plot(X, model.predict(X), color='yellow') # regression line
plt.xlabel('global_radiation')
plt.ylabel('temperature')
plt.title('')
plt.show()
```

[7] ✓ 0.5s Python



temperature

global\_radiation

```
# =====
# 2. Actual vs Predicted
# =====
```

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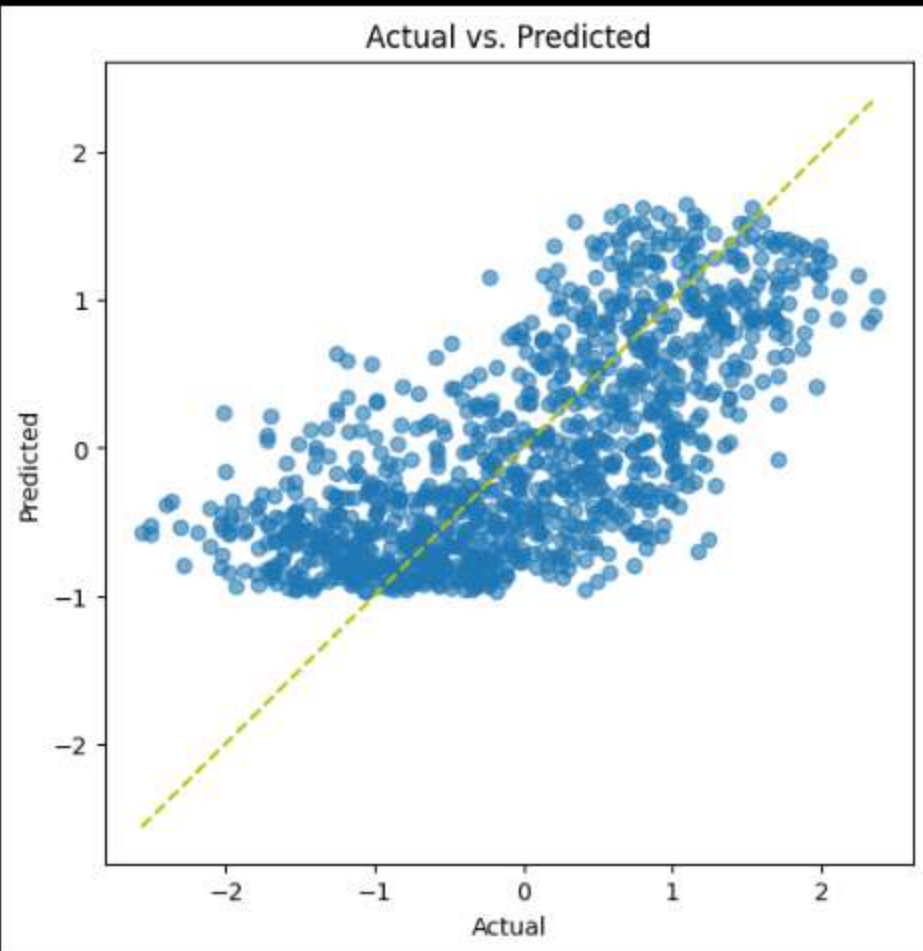
.venv (Python 3.12.10)

global\_radiation

```
# =====  
# 2. Actual vs Predicted  
# =====  
plt.figure(figsize=(6,6))  
plt.scatter(y_test, y_pred, alpha=0.6)  
plt.plot([min(y_test), max(y_test)], [min(y_test), max(y_test)], 'y--') # diagonal  
plt.xlabel('Actual')  
plt.ylabel('Predicted')  
plt.title('Actual vs. Predicted')  
plt.show()
```

[8] ✓ 0.1s Python

Actual vs. Predicted





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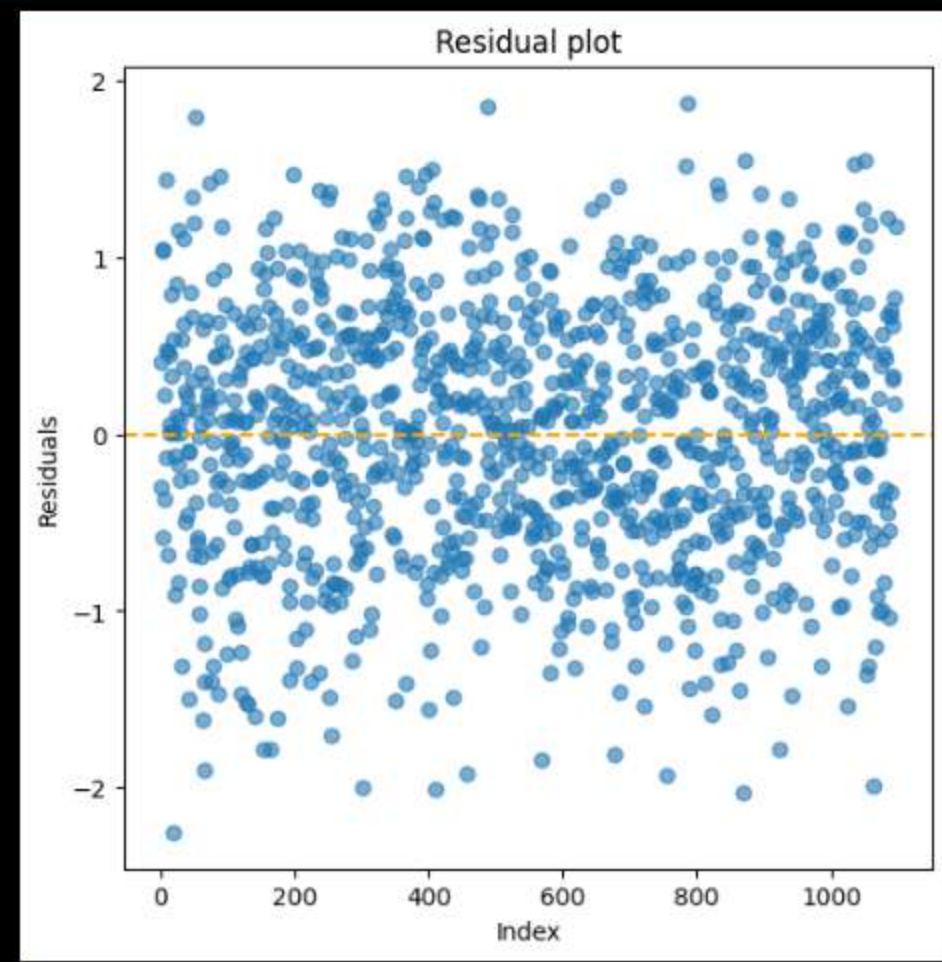
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```
# =====  
# 3. Residual Plot vs Index  
# =====  
plt.figure(figsize=(6,6))  
plt.scatter(range(len(residuals)), residuals, alpha=0.6)  
plt.axhline(0, color='orange', linestyle='--')  
plt.xlabel('Index')  
plt.ylabel('Residuals')  
plt.title('Residual plot')  
plt.show()
```

[9] ✓ 0.1s Python



```
# =====  
# 4. Histogram of Errors  
# =====
```

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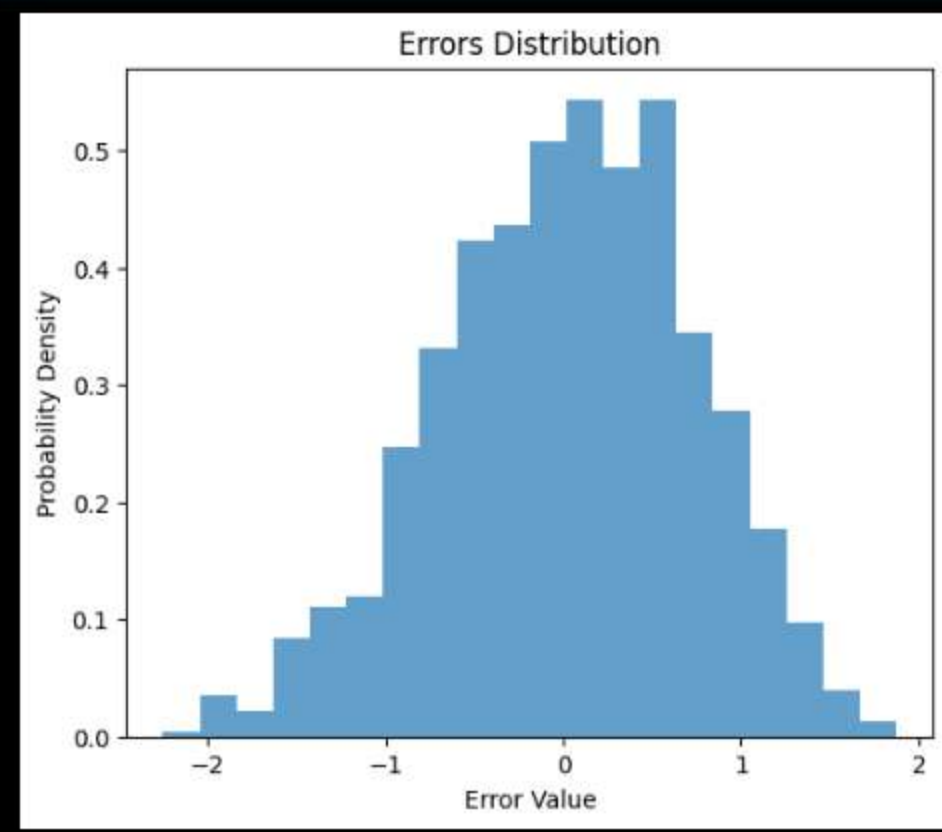
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```

```
# =====
# 4. Histogram of Errors
# =====
plt.figure(figsize=(6,5))
plt.hist(residuals, bins=20, density=True, alpha=0.7)
plt.xlabel('Error Value')
plt.ylabel('Probability Density')
plt.title('Errors Distribution')
plt.show()
```

[10] ✓ 0.1s Python



```
# =====
# 5. Regression line again (bottom final)
# =====
plt.figure(figsize=(6,6))
plt.scatter(df['global_radiation'], df['temperature'], alpha=0.6)
plt.plot(X, model.predict(X), color='yellow')
plt.xlabel('global_radiation')
plt.ylabel('temperature')
```



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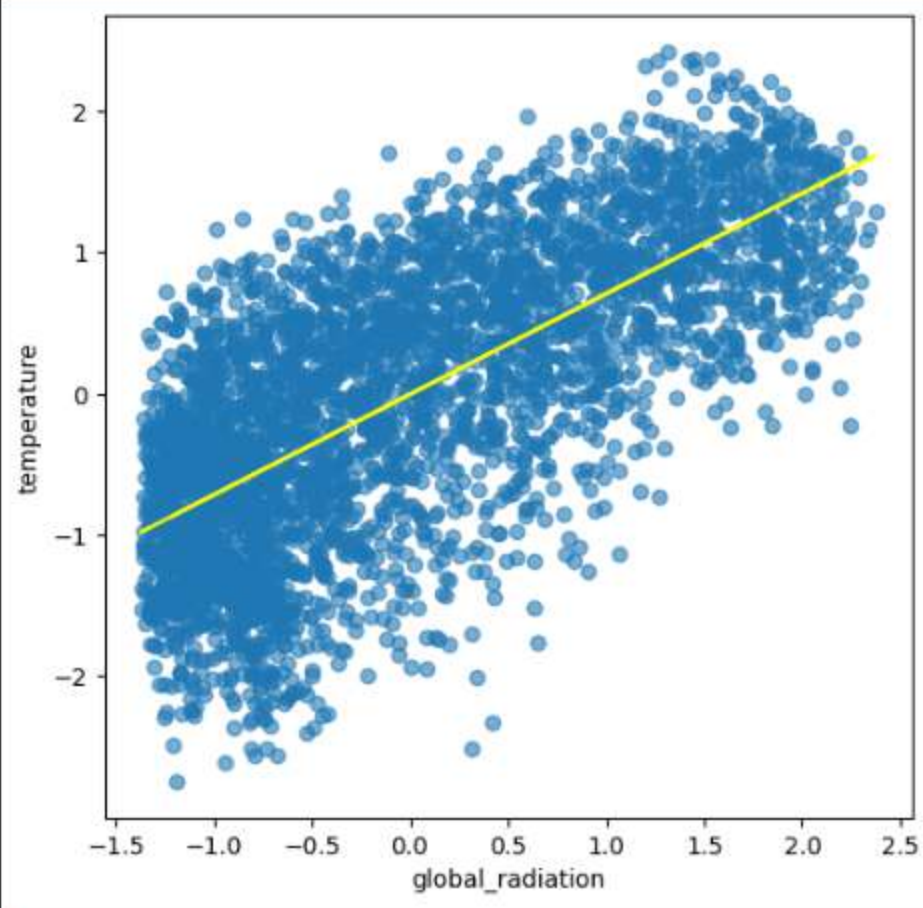
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Error Value

```
# =====  
# 5. Regression line again (bottom final)  
# =====  
plt.figure(figsize=(6,6))  
plt.scatter(df['global_radiation'], df['temperature'], alpha=0.6)  
plt.plot(X, model.predict(X), color='yellow')  
plt.xlabel('global_radiation')  
plt.ylabel('temperature')  
plt.show()
```

[11] ✓ 0.1s Python



temperature

global\_radiation