



This document ☐ captures all ♠ errors encountered while working on the ♦ Gradio-based Book Recommender project on 〒 February 3, 2025, starting from ② 2 PM. Each ● error is documented with its ↑ cause, Q diagnosis, and 🏋 resolution.

1 b Homebrew Not Found Error

X Error:

brew: command not found \(\int \)

Cause:

Homebrew was X not installed or in not configured in the system PATH.

X Fix:

1 Installed Homebrew je:

/bin/bash -c "\$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/HEAD/install.sh)"

2 Added Homebrew to PATH 🕍:

echo 'eval "\$(/opt/homebrew/bin/brew shellenv)"" >> ~/.zprofile
eval "\$(/opt/homebrew/bin/brew shellenv)"

③ Verified installation

brew --version

2 🔐 OpenSSL Library Not Found

X Error:

Library not loaded: /opt/homebrew/opt/openssl@3/lib/libssl.3.dylib

A Cause:

The system was missing OpenSSL or it was X not linked properly.

X Fix:

🔟 Installed OpenSSL 🔑:

brew install openssl@3

② Configured OpenSSL paths
im:

echo 'export PATH="/opt/homebrew/opt/openssl@3/bin:\$PATH"' >> ~/.zshrc

echo 'export LDFLAGS="-L/opt/homebrew/opt/openssl@3/lib"" >> ~/.zshrc
echo 'export CPPFLAGS="-I/opt/homebrew/opt/openssl@3/include"' >> ~/.zshrc
source ~/.zshrc

③ Verified OpenSSL installation ✓: openssl version

■ Pandas CSV Parsing Error

X Error:

ValueError: Unterminated quoted field at end of CSV line.



The CSV file improperly formatted text with unclosed quotes X.

% Fix:

① Opened the CSV file 📝 in a text editor 📏 ② Removed unclosed quotes 💢 and fixed the affected rows 🥄 ③ Reloaded the CSV 📂 using:

books = pd.read_csv("books_with_emotions.csv", on_bad_lines="skip")

$\boxed{4}$ Bad Delimiter in to_csv()

X Error:

ValueError: bad delimiter value 🚫

% Fix:

Replaced to_csv() with a manual write operation ::

with open("tagged_description.txt", "w", encoding="utf-8") as f:

f.write("\n".join(books["tagged_description"].dropna().astype(str).tolist()))

■ TensorFlow Not Found & Compatibility Issues

X Error:

RuntimeError: At least one of TensorFlow 2.0 or PyTorch should be installed.

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% Fix:
1 Installed TensorFlow 49:
pip install tensorflow==2.17 keras==2.17 transformers==4.45.0
2 Verified installation :
python -c "import tensorflow as tf; print(tf.__version__)"
6 💻 TensorFlow MPS Backend Error
X Error:
KeyError: (", '/device:GPU:mps') ♦
% Fix:
Forced TensorFlow 🧠 to use CPU 💻:
import tensorflow as tf
import os
os.environ["CUDA_VISIBLE_DEVICES"] = "-1"
os.environ["TF_ENABLE_MLIR"] = "0"
```

7 32 Gradio Button Click Error

tf.config.set_visible_devices([], 'GPU')



ValueError: All arrays must be of the same length \infty

Cause:

The lists being used for creating a Pandas DataFrame had different lengths.

X Fix:

Ensured both lists were of equal length before creating the DataFrame:

min_length = min(len(isbns), len(prediction_cat))

isbns = isbns[:min_length]

prediction_cat = prediction_cat[:min_length]

missing_predicted_df = pd.DataFrame({"isbn13": isbns, "predict_categories": prediction_cat})



Error

Cause

X Solution

- Homebrew Not Found X Not installed or M PATH missing
- Installed & configured **PATH**

- **Missing**
- X Not installed or 🔗 not linked
- Installed & configured

- CSV Parsing Error
- Improper formatting
- Cleaned CSV manually

- X to_csv() Delimiter Nandas issue Used write() instead **⚠** Incompatible installation Installed correct **Found** version MPS Backend Error 1 TensorFlow GPU issue **▼** Forced CPU execution Sorting Error Mixed data types Converted to strings II ISBN Parsing Error X Contains non-numeric Removed invalid characters characters Gradio Button Click Nismatched list lengths Adjusted list lengths **Error** Google Colab Repo Private repo Changed to public
- Outcome:
 - V Fixed all errors %.
 - ☑ Gradio-based 📚 Semantic Book Recommender is now fully functional ⊚.
 - All fixes documented for future \bigcirc reference.
- 🎉 End of Report 📜 🔆