

# User Manual - RNN Text Generator

## Overview:

This User Manual explains how to set up, train, and use the RNN-based text generator created using the provided files. It combines functionalities from multiple files (RNN.ipynb, RNN2.ipynb, and RNN2s.py).

## Step 1: Requirements Installation

Install the required Python libraries using:

```
pip install tensorflow numpy pandas matplotlib keras
```

## Step 2: Training the Model

1. Open RNN.ipynb or RNN2.ipynb in Jupyter Notebook.
2. Run the notebook cells sequentially to preprocess data and train the RNN model.
3. The text dataset is converted into lowercase characters and mapped to numerical values.
4. The model learns to predict the next character based on previous sequences.

## Step 3: Generating Text

1. Use the RNN2s.py script to load the trained model and generate text.
2. Run the script using:  

```
python RNN2s.py
```
3. The output will generate text based on the Sherlock Holmes training data.

## Step 4: Notes

- Ensure the model and dataset paths are correct.
- You can modify the seed text or number of generated characters for variation.
- Use GPU for faster training if available.

## Step 5: Output

The generator produces text in Sherlock Holmes' style, maintaining sentence flow and vocabulary patterns.

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Project: Sherlock Holmes RNN Text Generator