Email Thread Summarization Tool - Setup Guide

Prerequisites

- ➤ Python 3.8 or higher
- ➤ pip (Python package manager)
- ➤ Internet connection (for downloading models)

Installation Instructions

Step 1: Create a Virtual Environment (Recommended)

```
python -m venv email_summarizer_env

email_summarizer_env Scripts\ \activate activate
```

Step 2: Install Required Packages

```
pip install transformers torch streamlit
```

Step 3:
Running the Applications
Option 1: Tkinter Desktop Application

```
python email_summarizer_tkinter.py
```

Features:
- Native desktop
- GUI Offline capability (after model download)
- Progress indicators
- Sample email for testing
- Clear and intuitive interface

Option 2: Streamlit Web Application

```
streamlit run email_summarizer_streamlit.py
```

Features:
- Modern web interface
- Automatic model caching
- Statistics and metrics
- Responsive design
- Rich formatting

System Requirements
- Minimum RAM: 4 GB (8 GB recommended)
- Disk Space: ~2 GB for model storage
- CPU: Any modern processor (GPU optional but faster)

Usage Tips
Input Email Format
The tool accepts various email formats:
- Complete email with headers
- Email body only
- Forwarded messages
- Email threads

Optimal Performance
- Emails between 100-1000 words work best
- Remove unnecessary attachments info

The tool automatically handles:
- Email signatures
- Quoted replies
- Headers (From, To, Date, etc.)