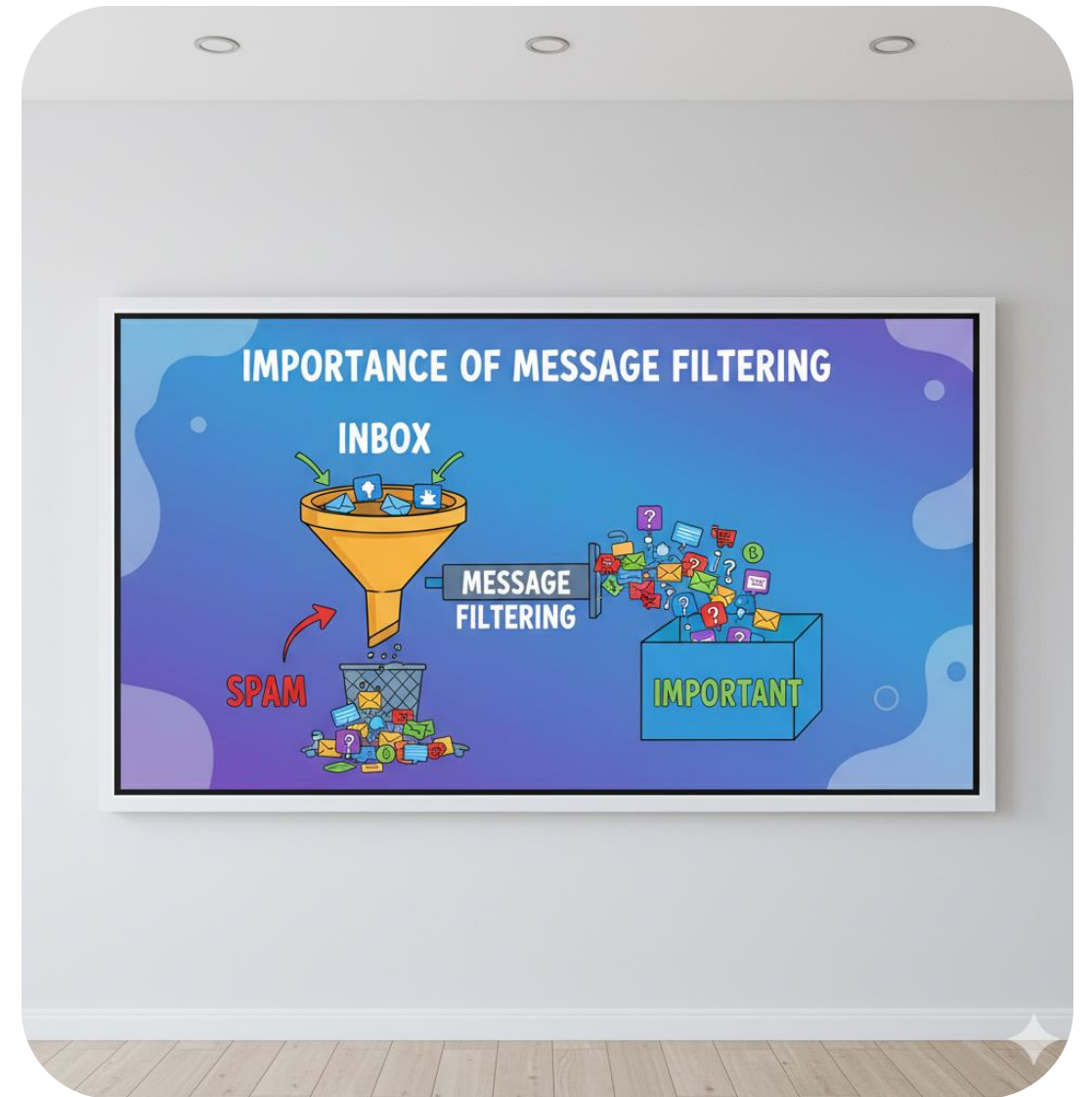


Core feed - Message Classification Dashboard

Using DistilBERT &
Streamlit for AI-Powered
Message Ranking

Presented by Nijanshi Patel



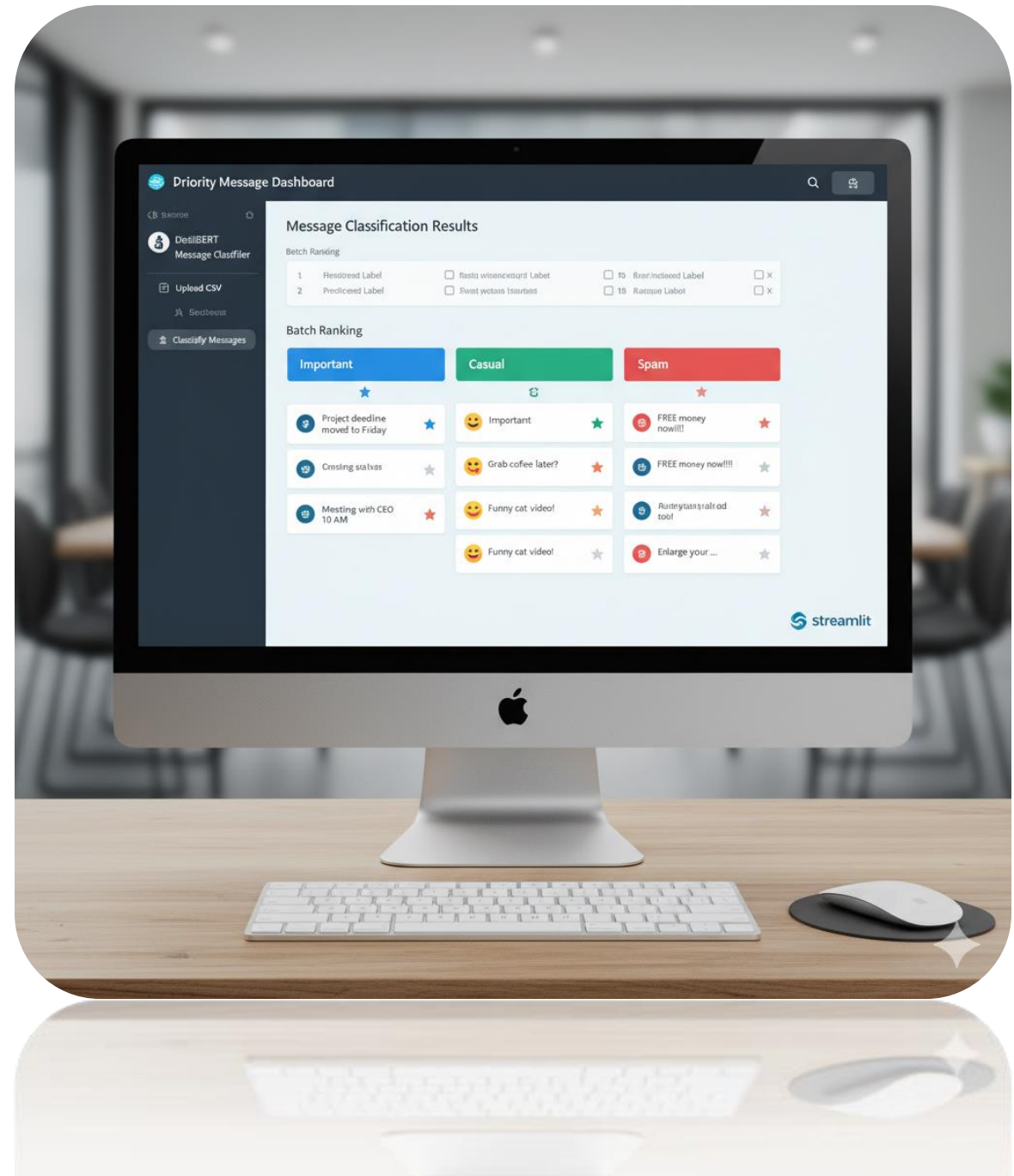
Problem Statement

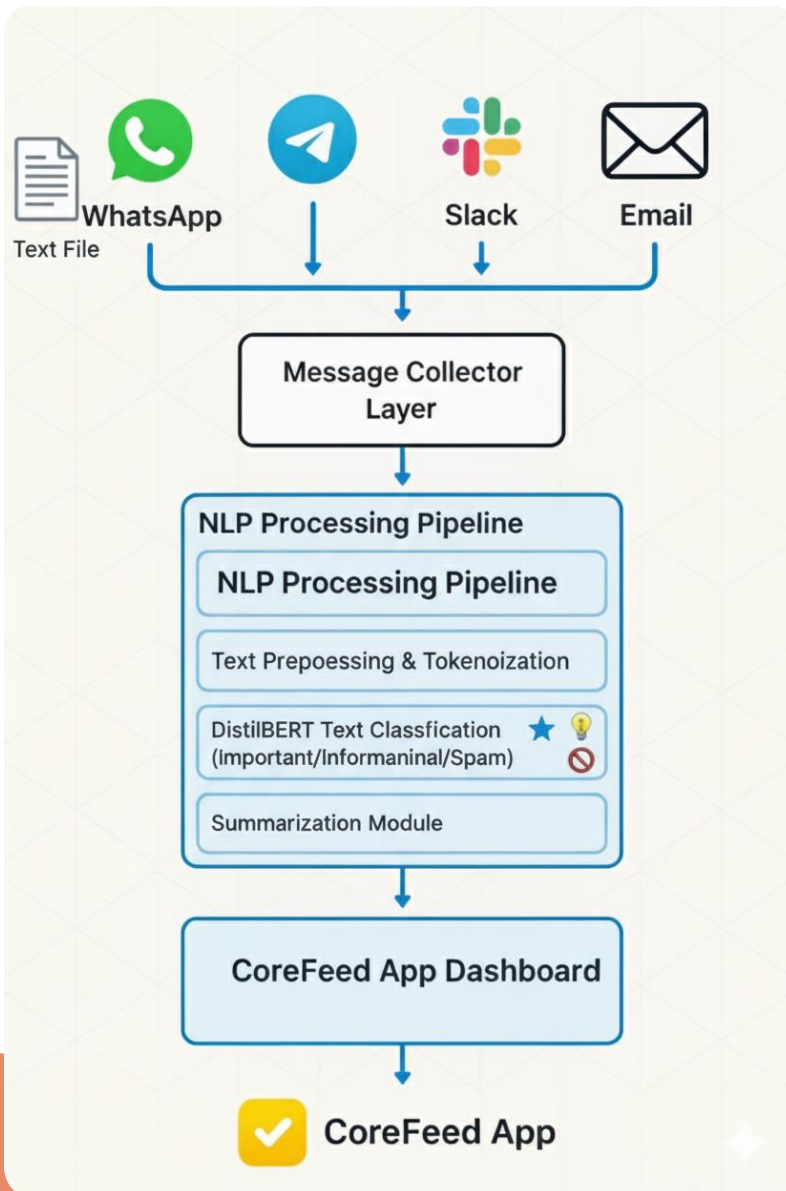
- Users receive large volumes of messages daily.
- Prioritizing important messages manually is time-consuming.
- Need an **AI-based system** to classify and rank messages by priority automatically.



Proposed Solution

- Build a **Message classification Dashboard** using **Streamlit**.
- Use **DistilBERT** for message classification.
- Classifies messages into:
 - **Important**
 - **Casual**
 - **Spam**
- Provides **batch ranking** of multiple messages.





Architecture Diagram

- **Input Sources:** WhatsApp, Telegram, Slack, Email, Text files
- **Message Collector:** Gathers messages from all channels
- **NLP Pipeline:** Preprocessing + Tokenization
- **DistilBERT Model:** Classifies (Important / Casual / Spam)
- **Summarization Module:** Condenses key information
- **Dashboard:** Displays ranked & summarized messages
- **CoreFeed App:** Final user interface for notifications & updates

Features of Dashboard



Real-time single
message
classification



Batch processing of
messages via
file upload



Important > Casual > Spam

Automatic ranking



User-friendly
Streamint
interface



Can be extended
to email / chat
applications



Can be extended to
email applications

Key Features



Conclusion

- The system effectively classifies messages into **Important, Casual, and Spam**.
 - **Automated ranking** ensures critical information is prioritized.
 - Enhances **user productivity** by reducing time spent filtering messages manually.
 - Provides a **scalable solution** for handling large volumes of digital communication.
- 