Audio Transcription App using Open AI Whisper

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Problem Statement:

- Manual Transcription is slow and Error prone
- Existing solutions are expensive
- Need for accurate and Real-time transcription
- Live Recording

Solution Provided:

- AI-powered Transcription using open AI whisper

- Fast, accurate

- Affordable and Scalable

- Summarization and Key Words provided

- Audio Recording

Approach:

- Speech-to-text using Whisper API

- Real-time and batch processing

- Integration with apps (Mobile/Web)

- Post processing for better accuracy

Techstack:

Python

StreamLit

Fast API

Whisper

Uvicorn

Features:

- Real-time transcription

- Punctuation & formatting

- Export options (txt,pdf,docx)
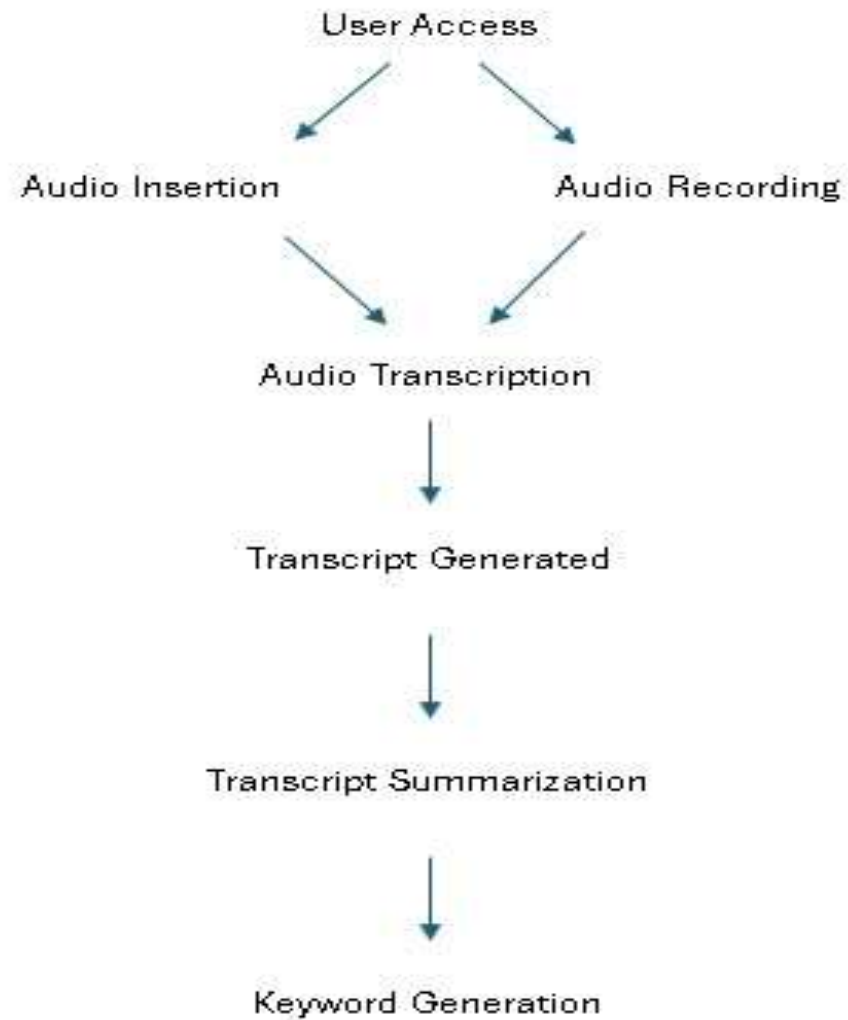
- Transcript Summarization

- Key Word identification

Use Cases:

- Meetings & Conferences

- Academics & Accessibility

- Customer support

- Journalists & Podcasters

User Flow :

Literature Review

- Transcription From Music Audio:

  https://ieeexplore.ieee.org/abstract/document/4156215

- Transcription of audio recordings:

  https://dspace.mit.edu/handle/1721.1/67363

- WhisperX Transcription of Long-Form Audio

  https://arxiv.org/abs/2303.00747

THANK YOU