

Avatar Lab



Building smart & Realistic AI avatars

Mahesh Nampally
G-331

Scope of the project



Our project aims develop a system where the user can create personalized avatars from the given text

Business case and the end Users

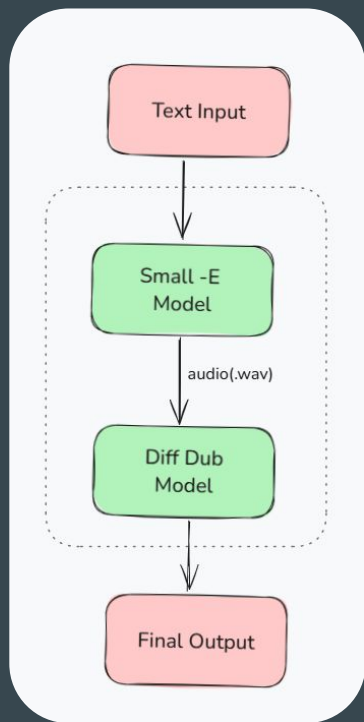
This project provides

- Better lip sync
- Realistic avatar
- Voice cloning

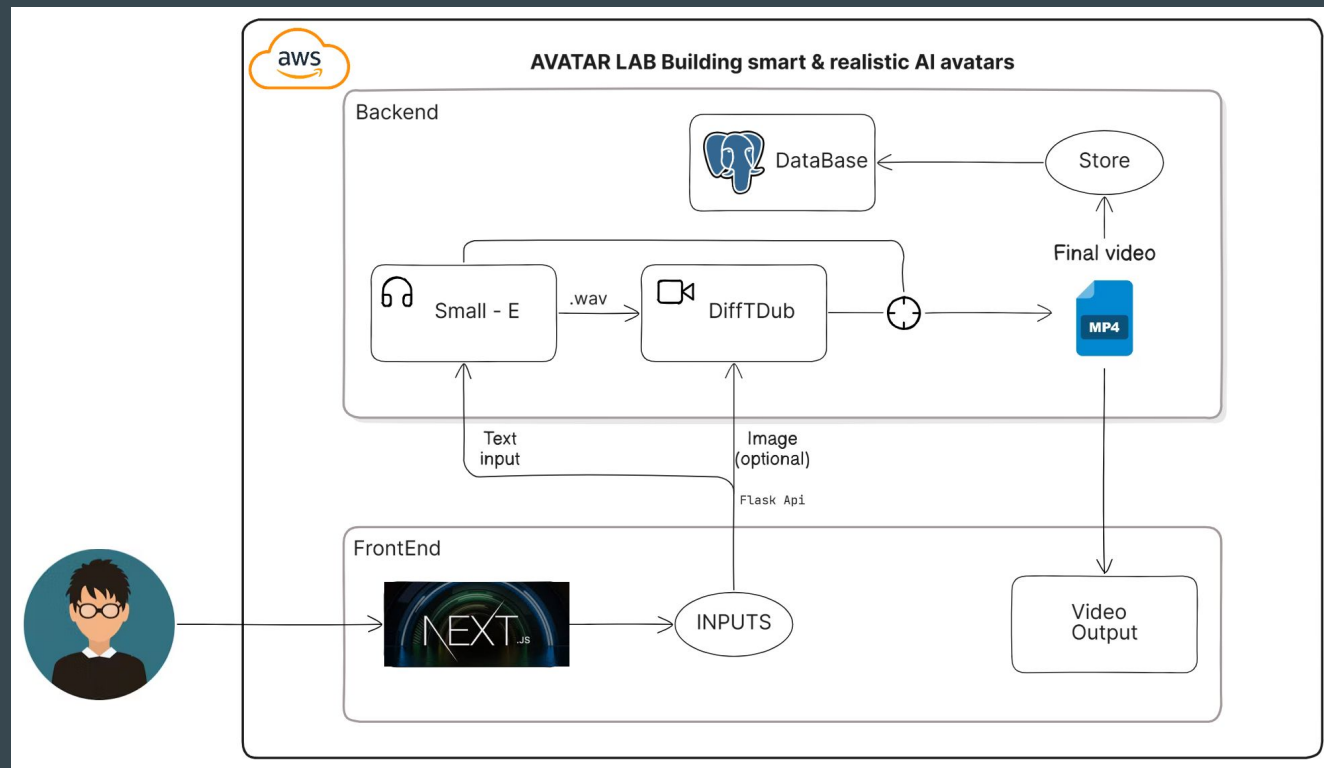
will be provide tailored content for

- Content creators
- Educators
- General users
- Anyone seeking to create
engaging and accessible content

Workflow



Architecture



Tech Stack and Models

- Small - E voice model
 - *Generates a cloned voice from the text and the audio*
- DiffDub video model
 - *Ensures the lip-syncing with the generated audio*
- Frontend : Next.js
- Backend : Flask api
- Database : MongoDB , PostgreSQL



Thank You