

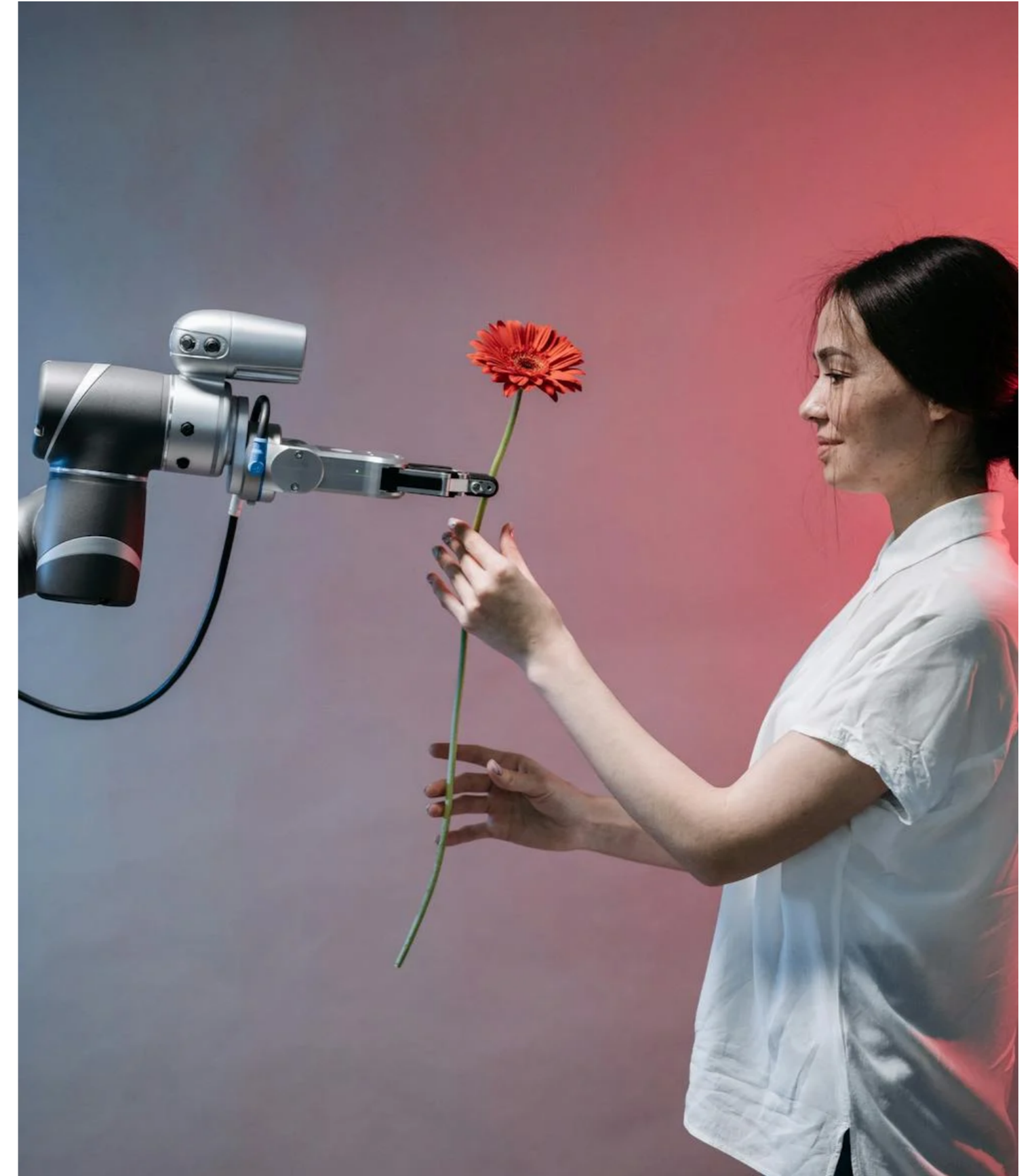
RAHA: A voice enabled AI for digital accessibility

Raha is a voice enabled AI, powered by Large Action Models to enable Digital inclusion in AI diaspora. It's Model and Tool agnostic, can work with all types of desktop GUI.

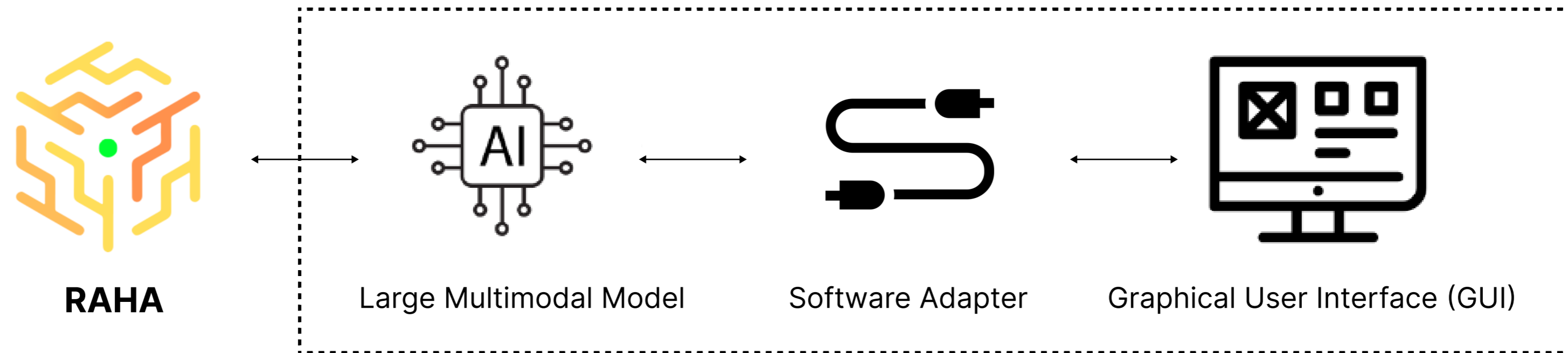


With the AI technologies growing in rocket speed, there is a large population globally getting no access to this AI diaspora. We want to **include** them with **accessibility**.

Raha is designed to address the digital inclusion gap, **using Large Multimodal Models (LMMs) to provide a voice interface** for individuals without access to conventional AI technologies.



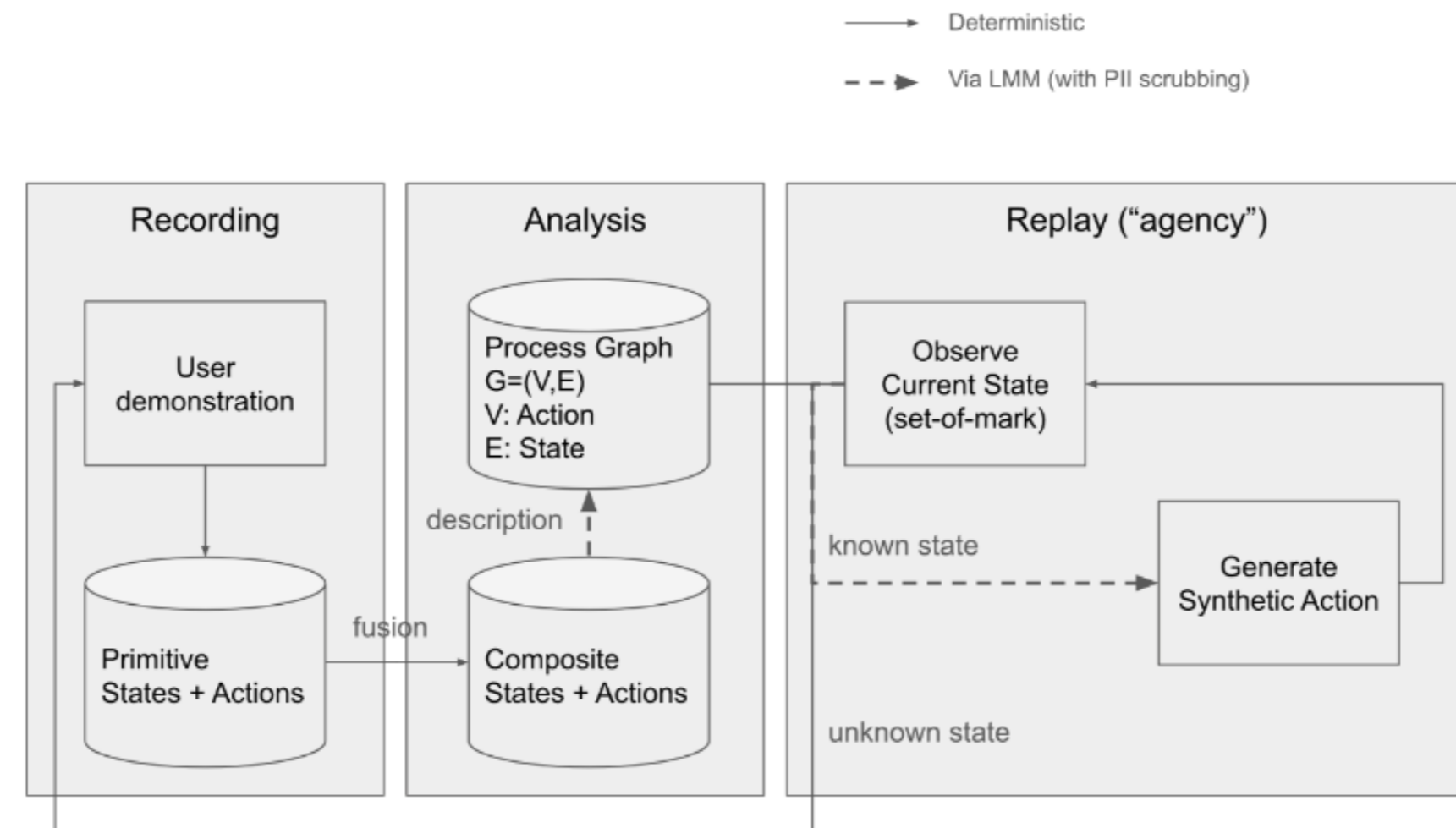
What's RAHA?



RAHA takes voice input from user, uses foundation models to analyze and automate, uses a software adapter between Large Multimodal Models (LMMs) and traditional desktop and web Graphical User Interfaces (GUIs) like Open Adapt.

Final output is enabling the user to interact with any tools in desktop or web with voice input.

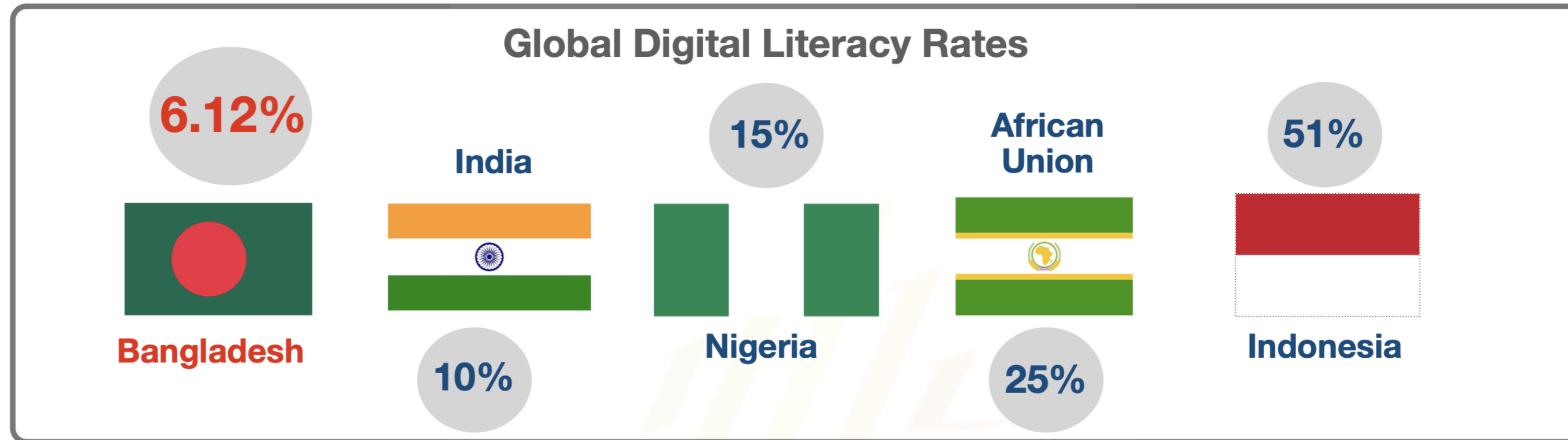
System Overview:



The Python library for Software Adapter implements AI-First Process Automation with the power of Large Multimodal Modals (LMMs) by:

- Recording screenshots and associated user input
- Aggregating and visualizing user input and recordings for development
- Converting screenshots and user input into tokenized format
- Generating synthetic input via transformer model completions
- Generating task trees by analyzing recordings (work-in-progress)
- Replaying synthetic input to complete tasks (work-in-progress)

Digital Illiteracy: The Key Obstacle to Digitalization Globally



Critical Challenges

Digital Literacy

Full ability to **independently navigate and execute** essential tasks digitally via graphical interface

Information Access

World Bank estimates **70% of the Global Population** does not how to adequately access information

Financial Exclusion

Existing App-based, Web-banking, and USSD-banking is a **steep learning curve** for digitally challenged people



Critical Metrics

11.8%

Population with access to Information

15%

Active User Rate Among MFS Users

95%

of Citizens use their phone to make & receive calls

16%

Active User Rate Among people with Financial Institute account

5%

GDP Loss due to lack of Digital Transactions

89%

of Users find non-assisted digital transactions difficult

Business Model

Subscription Model(Geo Dependant Pricing)

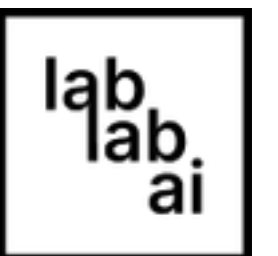
5\$/month 20\$/month

Tier 2 & 3 Countries Tier 1 Countries

API Partnerships

0.0012 - 0.0084 Per API Call

Dependant on Usage



Future Scope

Remove Open Source Dependency

R&D in Large Action Model

Release in Mobile Eco-system

Potential Application in Wearable Industry

R&D in Language agnostic Voice Command

Application in Virtual Reality industry

Team



Tareque

CTO, Hishab

A Machine Learning engineer with 8 years of experience in building data intensive applications and scalable software platforms.

✔ **Built a Voice AI application with ASR, chatbot, TTS, and NER for the Bengali language, accessible by millions of users in Bangladesh and India.**



Rubaiyat

Founder & COO, Markopolo ai

Engineer, Product Guy
Ex- CEO, TiGrow (Now OneThread)
Project Management SaaS
(Acquired)

Forbes 30 U 30 Asia, 2023