

Meet dwani.ai

dwani.ai: Knowledge from Curiosity

Accessible, Private, Open Source, Free



dwani.ai



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Anita cannot use Voice Tech

- English Only, Not Private



Why We Need dwani



Ever tried asking Siri or Alexa something in Kannada? They don't get it!

- Over 5 crore people speak kannada, but most voice tech ignores them

dwani uses Open Source Tools to fix this - built for YOU!

What Makes dwani Special?



Its FREE for anyone to use or tweak-like a community project!

- Runs on your premise, keeping your chats private.

Uses Open-weight Models released by AI4Bharat, Google Deepmind, OpenAI

<u>dwani.ai</u> Team



- Sachin Shetty - Software Engineer, 10+ year S/W, 2+ year GenAl

- Sahana Shetty - Robotics Engineer, "Human-Assisting Apparatus", Indian Patent - 562119

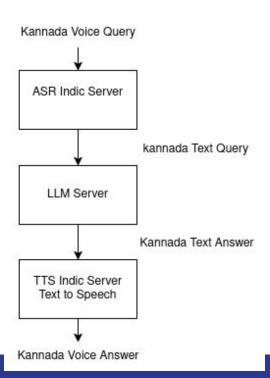
- Nithish S - Embedded Engineer, Outreach and Community Management

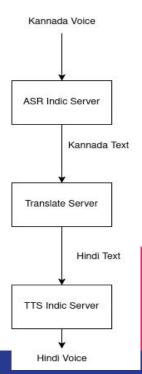
What can Dwani Do?



Chat In Kannada

Translate on the Fly



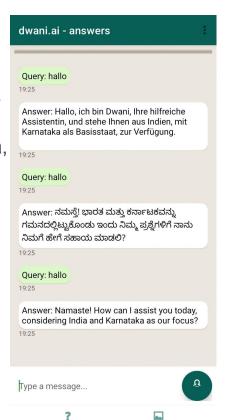


Current Status - July 22, 2025



Answer -

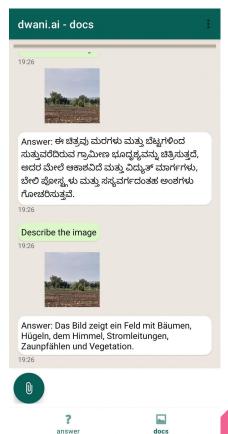
Kannada, German, English



docs

answer

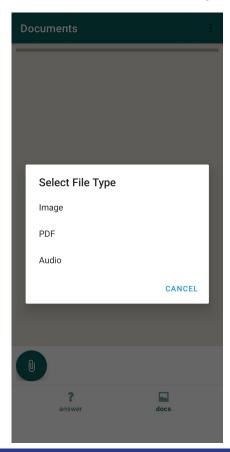
Image Query



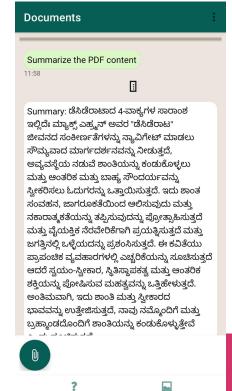
Current Status - July 22, 2025 (contd)



Select Type



PDF Summary



answer

dwani.ai - python-sdk



- pip install –upgrade dwani
- Credentials to use <u>dwani.ai</u> API
 - DWANI_API_BASE_URL = https://beta-api.dwani.ai
 - DWANI_API_KEY = email_id + _dwani
 - Ex : email_id : user-email@example.com
 - DWANI_API_KEY = user-email@example.com_dwani
- Languages Supported
 - Hindi, Kannada, Malayalam, Marathi, Odia, Punjabi, Tamil, Telugu
 - English, German



dwani.ai - Android App



dwani's Goals



To integrate and enhance the following models and services for Kannada:

- Automatic Speech Recognition (ASR): To convert spoken Kannada into text.
 - a. Listen: Understands spoken Kannada-like a friend who gets you
- **Text-to-Speech (TTS)**: To convert Kannada text into natural-sounding speech.
 - a. Speak Talks back in kannada, naturally
- **Translation Services**: To enable translation between Kannada and other Indian languages.





- Python 3.10 (mandatory)
- Ubuntu 22.04 (Preferred)
- GitHub Account
- HuggingFace Account
- Fork and clone
- Live Demo

<u>GitHub</u>

Hugging Face

https://github.com/dwani-ai/workshop

https://workshop.dwani.ai

Workshop Plan

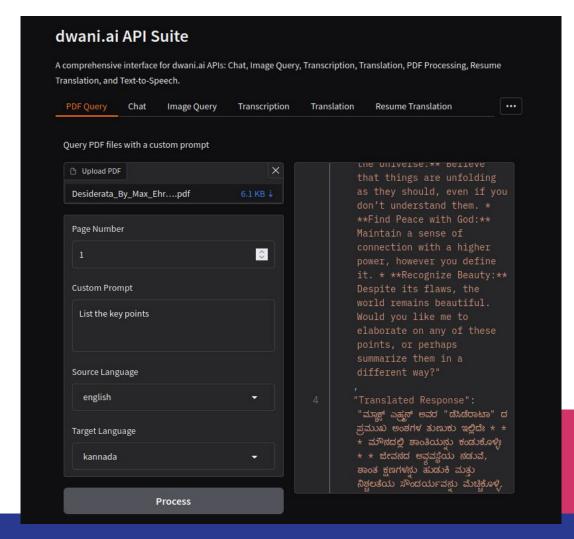


- Walk through of dwani.ai GitHub Projects for reference

Build UX with Gradio/Python to explore Use-cases for Voice AI with Kannada
+ Indian Languages

- Explore Workshop Code
 - https://workshop.dwani.ai
 - https://github.com/dwani-ai/workshop/blob/main/workshop_demo.py

Document Query









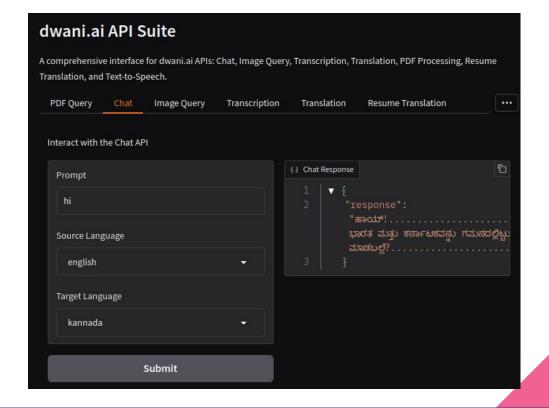
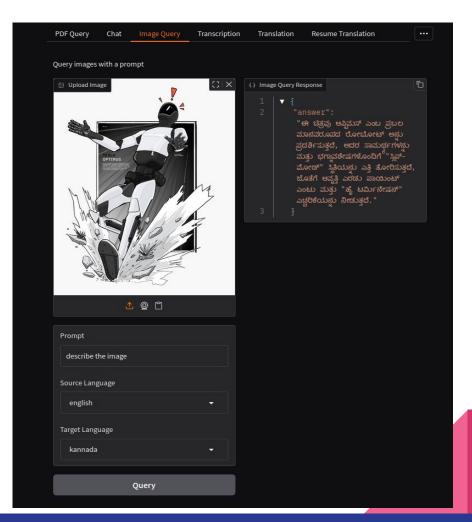


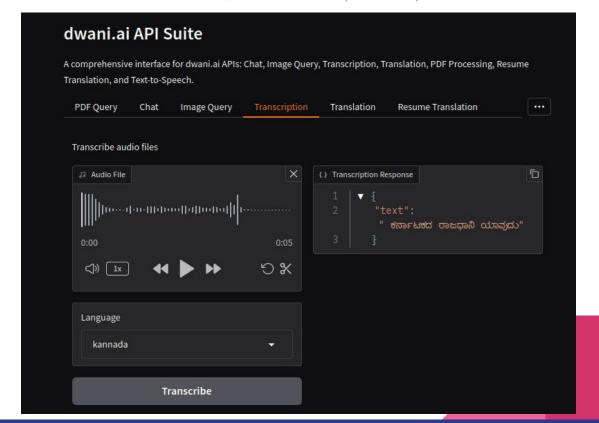
Image Query





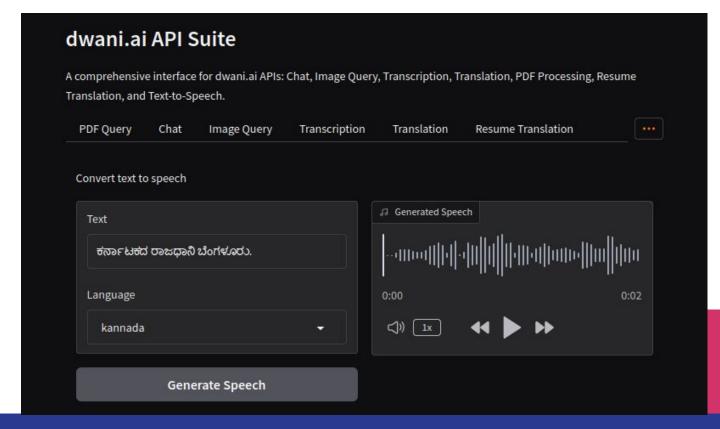


Automatic Speech Recognition (ASR)



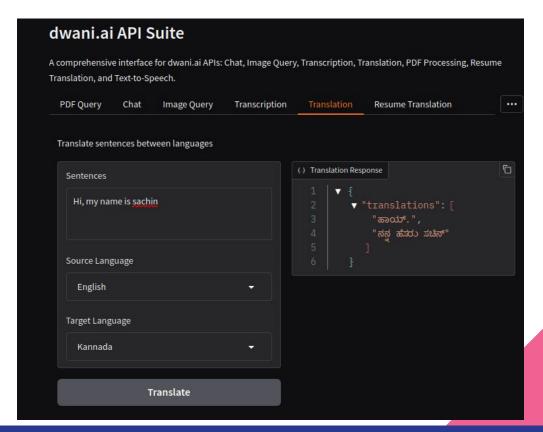














Research Goals / Collaboration

 Measure and improve the Time to First Token Generation (TTFTG) for model architectures in ASR, Translation, and TTS systems.

Tool	Source
Document Processing	https://github.com/dwani-ai/docs-indic-server
Automatic Speech Recognition : ASR	https://github.com/dwani-ai/asr-indic-server
Text to Speech : TTS	https://github.com/dwani-ai/tts-indic-server
Translation	https://github.com/dwani-ai/indic-translate-server
API Server	https://github.com/dwani-ai/dwani-api ver
Dwani Android App	https://github.com/slabstech/dw

Problem statements - Health



- Multilingual Symptom Checker
- Voice-Enabled Appointment Booking System
- Health Education Voice Platform
- Assistive Tool for Visually Impaired Patients
- Voice-Driven Telemedicine Connector
- Mental Health Support Voice Bot
- Voice-Based Rehabilitation Guide
- Multilingual Emergency Response Assistant
- Voice-Enabled Health Record Access
- Assistive Tool for Physically Challenged Patients

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Problem statements - Public Service and Government

- Multilingual Grievance Filing System
- Voice-Enabled Public Scheme Navigator
- Transparent RTI Query Tool
- Citizen Feedback Collector
- Voice-Driven e-Governance Chatbot
- Accessible Voting Information System
- Smart Public Announcement System
- Multilingual Legal Aid Assistant
- Voice-Based Public Transport Query System
- Citizen Safety Reporting Tool

Q/A



- What are your feedback for Workshop?
- What would you like to build?
- Slides Download https://dwani.ai/dwani-ai-workshop.pdf

