



Meet dwani.ai

dwani.ai: Knowledge from Curiosity

Accessible, Private, Open Source, Free



dwani.ai

Anita's Story

- Anita cannot use Voice Tech
- English Only, Not Private



Why We Need dwani

- Ever tried asking Siri or Alexa something in Kannada / Mother Tongue ? 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 ?

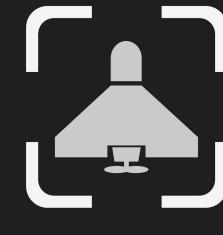
- Its **FREE** for anyone to use or tweak-like a community project !
- Runs on your premise, keeping your chats private.
- Uses Open-weight Models released by AI4Bharat, Google Deepmind, OpenAI, Qwen

dwani.ai Team

- Sachin Shetty - Software Engineer, 10+ year S/W , 2+ year GenAI
- Sahana Shetty - Robotics Engineer, "Human-Assisting Apparatus", Indian Patent - 562119
- Nithish S - Embedded Engineer, Outreach and Community Management

Experiments <> Hackathons with dwani

- Juris-diction-AI-ry - Tax Tech Hackathon 2025 Winner, Frankfurt
- Legal Aliens - XRAI Hack - Cologne
- Smart City Hackathon - Dusseldorf
- Weapon Watch - EDTH , Berlin
- GardenAI - BeyondXR Ideathon, Munich
- school - ଶାଳେ - AI Tutor ,

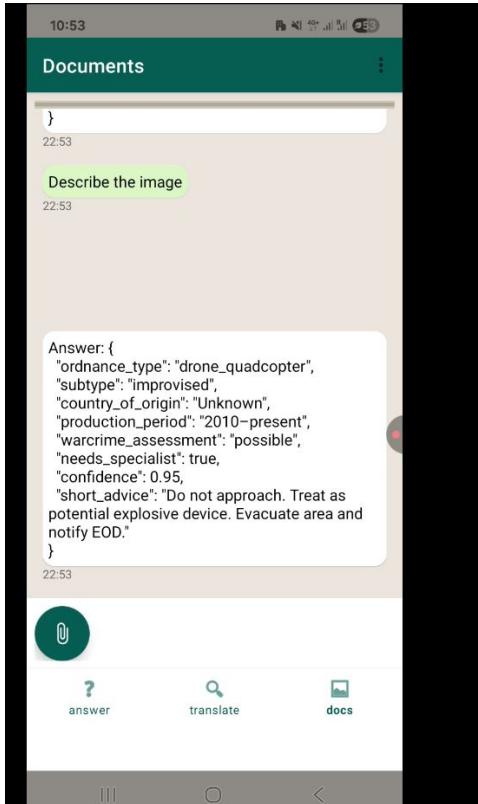


Weapon Watch - Civilian App -

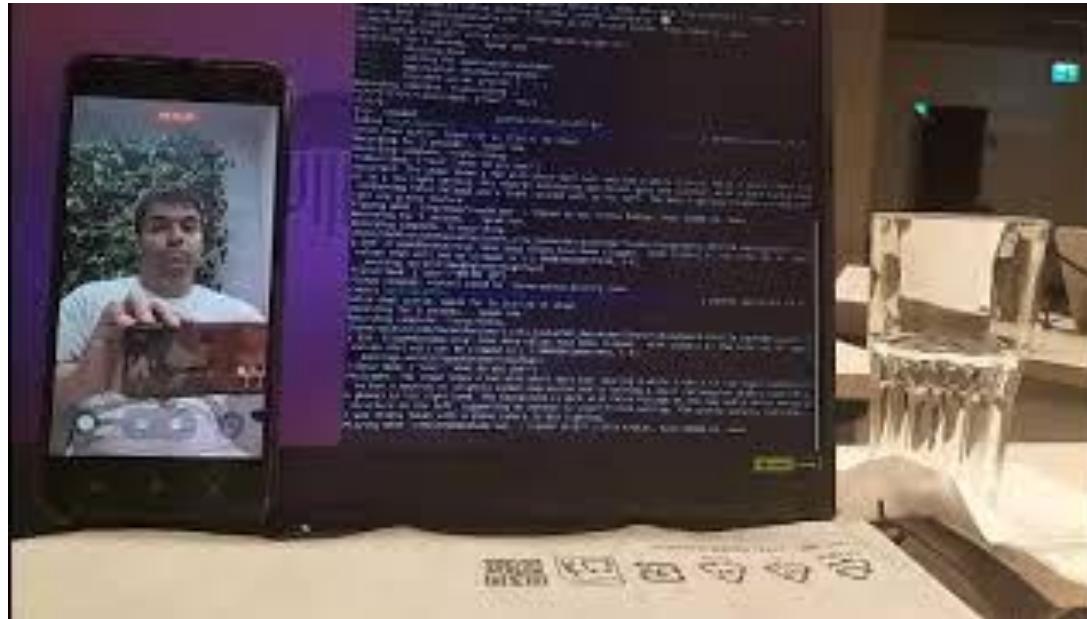
Camera
Input



Weapon
Info



Demo Video - Vision Assistance



GardenAI

Camera Input



Tools Info

Documents

10:52



Answer:

```
{
  "overall_condition": "fair",
  "maintenance_issues": [
    {
      "issue": "weeds",
      "location_description": "scattered throughout the lawn",
      "severity": "medium",
      "recommended_action": "mow regularly and remove weeds manually or with a brush cutter"
    },
    {
      "issue": "uneven grass height and patchy areas",
      "location_description": "main lawn area",
      "severity": "medium",
      "recommended_action": "mow lawn and consider aerating for better growth"
    }
  ],
  "general_advice": "Mow regularly and remove weeds to improve lawn health.",
  "confidence": 0.85
}
```

0

answer translate docs

Documents

10:53

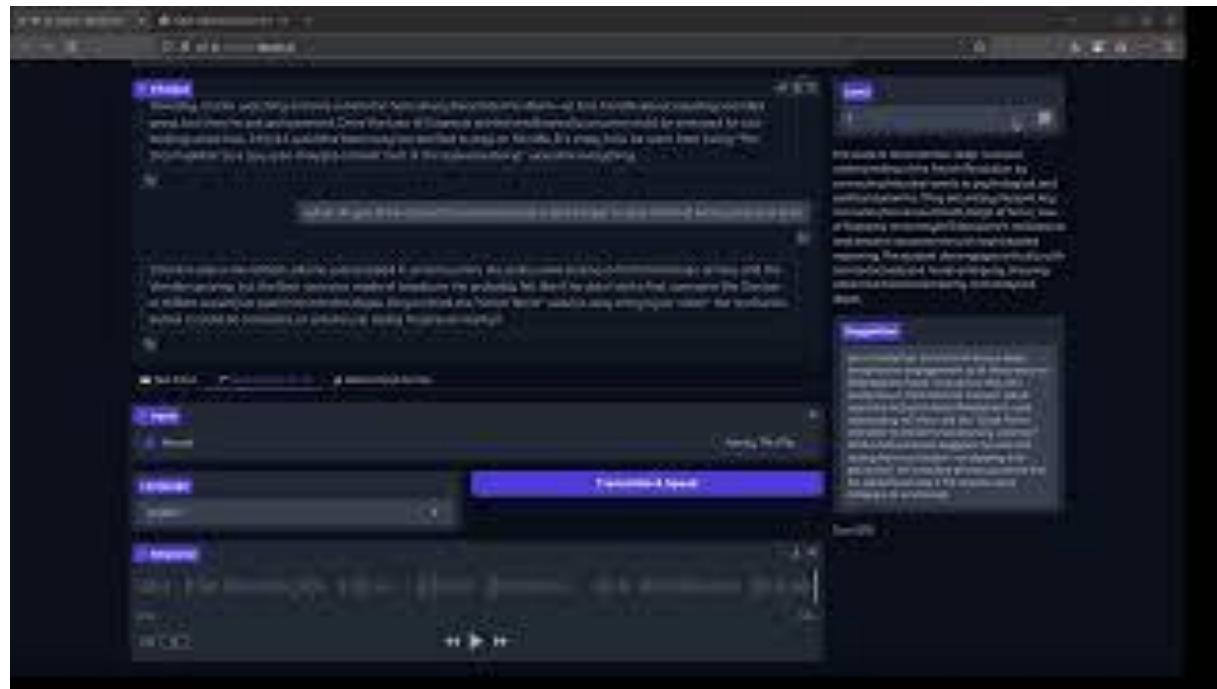
```
„required_tools“: [
  {
    "tool_name": "Rasenmäher",
    "purpose": "mow the lawn to even out height and remove weeds",
    "priority": "immediate"
  },
  {
    "tool_name": "Motorschere",
    "purpose": "trim overgrown areas and remove weeds in hard-to-reach spots",
    "priority": "soon"
  },
  {
    "tool_name": "Combigerät",
    "purpose": "loosen soil in the overgrown flowerbed",
    "priority": "soon"
  }
],
"general_advice": "Mow regularly and remove weeds to improve lawn health.",
"confidence": 0.85
}
```

0

answer translate docs

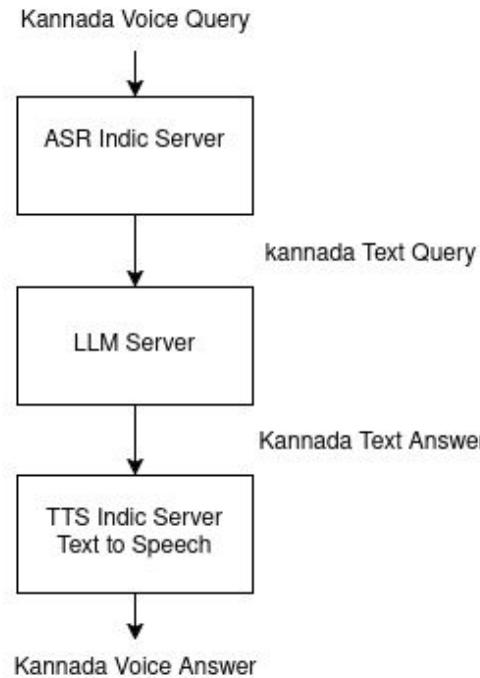


Demo - school - ନାମ୍

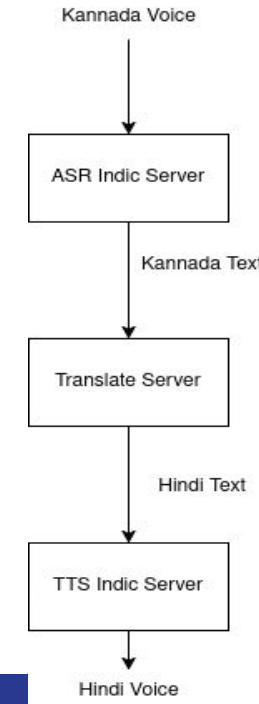


What can Dwani Do?

Chat In Kannada



Translate on the Fly



Current Status - Jan, 2026



Answer -
Kannada,
German,
English

dwani.ai - answers

Query: hallo
19:25

Answer: Hallo, ich bin Dwani, Ihre hilfreiche Assistentin, und stehe Ihnen aus Indien, mit Karnataka als Basisstaat, zur Verfügung.
19:25

Query: hallo
19:25

Answer: ನಮಸ್ತಿ ಭಾರತ ಮತ್ತು ಕರ್ನಾಟಕವನ್ನು ಗಮನಿಸಲ್ಪಟ್ಟಿರುತ್ತಿರುತ್ತಾನೆ ಇಂದ ನಿಮ್ಮ ಪ್ರಶ್ನೆಗಳಿಗೆ ನಾನು ನಿಮಗೆ ಹೇಗೆ ಸಹಾಯ ಮಾಡಲಿ? 19:25

Query: hallo
19:25

Answer: Namaste! How can I assist you today, considering India and Karnataka as our focus?
19:25

Type a message... 

 answer  docs

Image Query

dwani.ai - docs

19:26 

Answer: ಈ ಜಿತ್ವವು ಮರಗಳು ಮತ್ತು ಬೆಳ್ಳಗಳಿಂದ ಸುತ್ತುವರೆದಿರುವ ಗ್ರಾಮೀಣ ಭೂಭಾಗವನ್ನು ಚಿತ್ರಿಸುತ್ತದೆ, ಅದರ ಮೇಲೆ ಅಕಾಶವಿದೆ ಮತ್ತು ವಿದ್ಯುತ್ ಮಾರ್ಗಗಳು, ಜೀವಿ ಪೋಷಣ ಲು ಮತ್ತು ಸಸ್ಯವರ್ಗದಂತಹ ಅಂಶಗಳು ಗೊಳಿಸುತ್ತವೆ.
19:26

Describe the image
19:26 

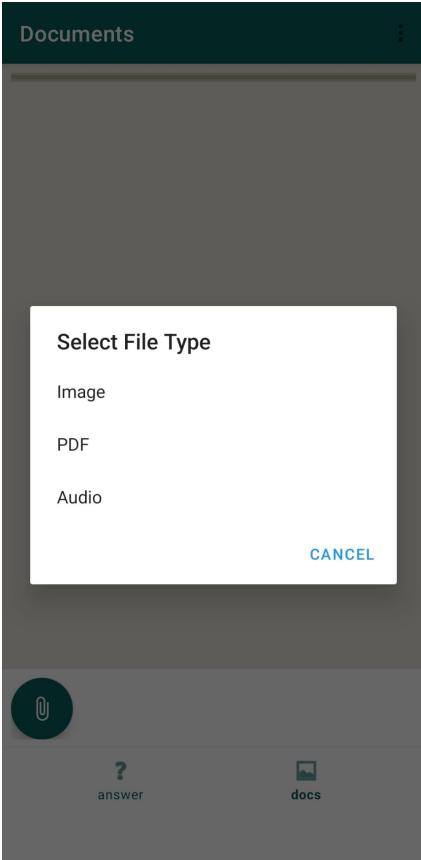
Answer: Das Bild zeigt ein Feld mit Bäumen, Hügeln, dem Himmel, Stromleitungen, Zaunpfählen und Vegetation.
19:26 

 answer  docs

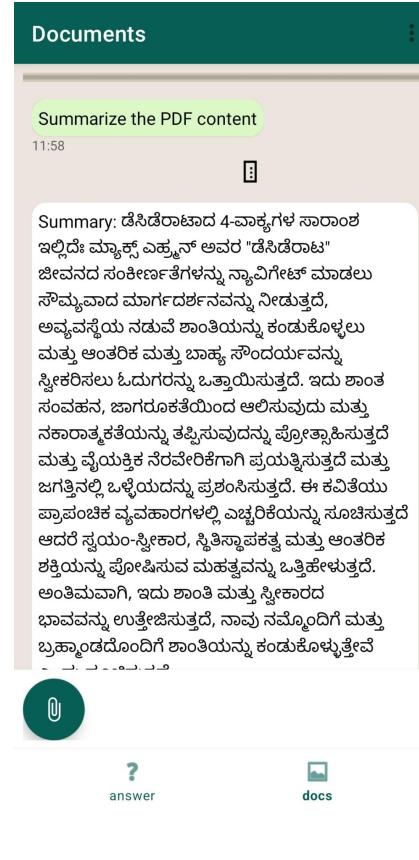
Current Status - Jan, 2026 (contd)



Select Type



PDF Summary



dwani.ai - python-sdk

- pip install –upgrade dwani
- Credentials to use [dwani.ai 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.

Workshop - Prerequisites

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

[GitHub](#)

[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

dwani.ai API Suite

A comprehensive interface for dwani.ai APIs: Chat, Image Query, Transcription, Translation, PDF Processing, Resume Translation, and Text-to-Speech.

PDF Query Chat Image Query Transcription Translation Resume Translation ...

Query PDF files with a custom prompt

Upload PDF
Desiderata_By_Max_Ehr...pdf 6.1 KB

Page Number
1

Custom Prompt
List the key points

Source Language
english

Target Language
kannada

Process

ONE UNIVERSE.** BELIEVE
that things are unfolding
as they should, even if you
don't understand them. *
Find Peace with God:
Maintain a sense of
connection with a higher
power, however you define
it. * **Recognize Beauty:**
Despite its flaws, the
world remains beautiful.
Would you like me to
elaborate on any of these
points, or perhaps
summarize them in a
different way?"

'
"Translated Response":
"ಮಾನ್ಯ ಎತ್ತರ್ನೆ ಅವರ "ದೀರ್ಘಾಟಾ" ದ
ಪ್ರಮುಖ ಅಂತರ್ಗತ ತುಳಸು ಇಲ್ಲಿದೆ. * *
* ಮೊಣಕ್ಕಿಣಿ ಶಾಸ್ತ್ರಿಯನ್ನು ಕಂಡುಹಿಂಬಿ
* * ಜೀವನದ ಅವಶ್ಯಕೆಯನ್ನು ನಿರ್ದಿಷ್ಟ
ತಾಂತ ಕ್ಷಣಿಗಳನ್ನು ಹುಡುಕಿ ಮತ್ತು
ಸಿಕ್ಕಿಸಿ ಸೆಂದಿಯ್ವಾಗನ್ನು ಚೆಚ್ಚಿಸಿ.



Indic LLM Chat

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PDF Query Chat Image Query Transcription Translation Resume Translation ...

Interact with the Chat API

Prompt
hi

Source Language
english

Target Language
kannada

Chat Response

```
1 {  
2   "response":  
3     "ಹಾಯ್! .....  
4     ಭಾರತ ಮತ್ತು ಕನಾದಾರ್ಪನೆ ಗಮನದಲ್ಲಿಗೂ  
5     ಮಾಡಬೇ? .....
```

Submit

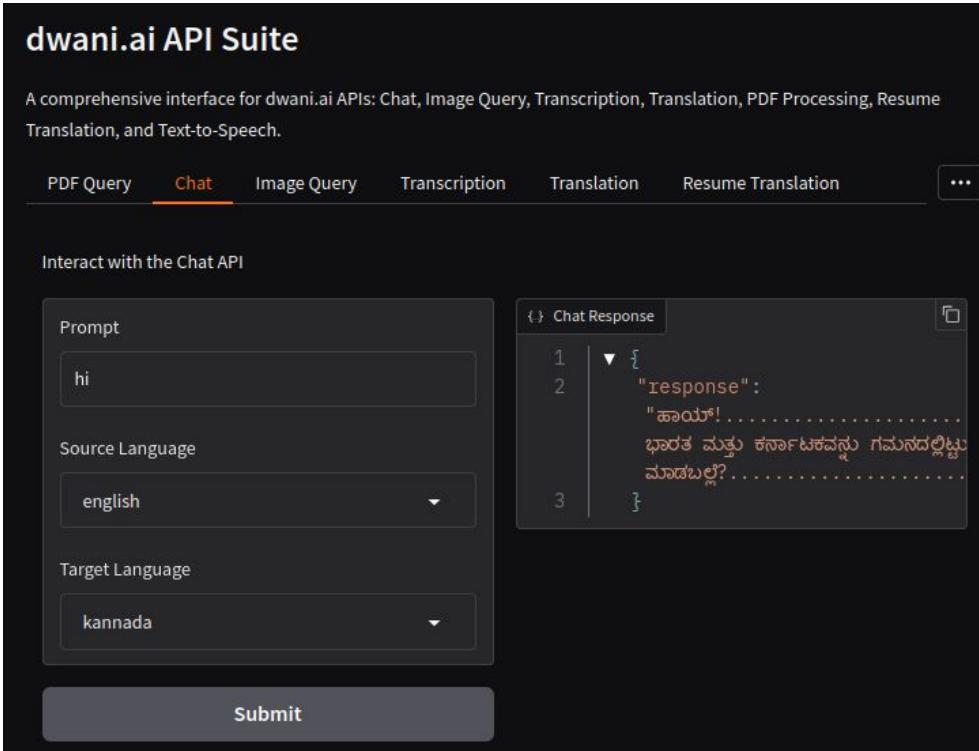
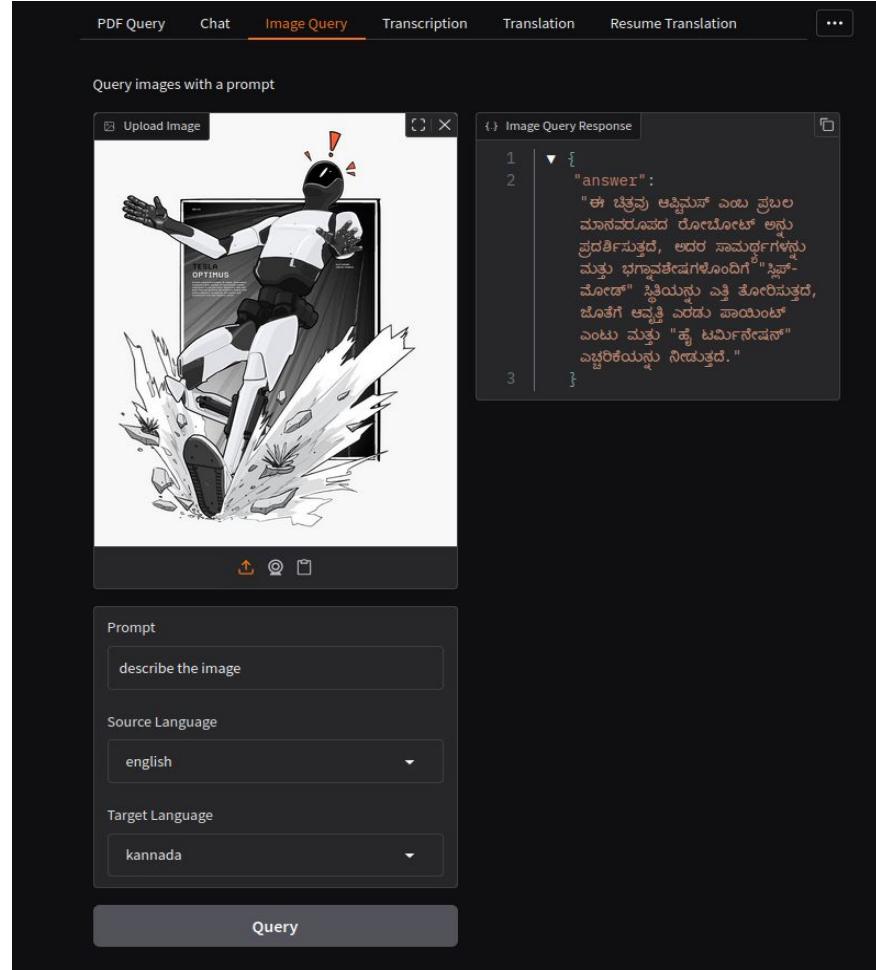


Image Query



Automatic Speech Recognition (ASR)

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PDF Query Chat Image Query **Transcription** Translation Resume Translation ...

Transcribe audio files

Audio File

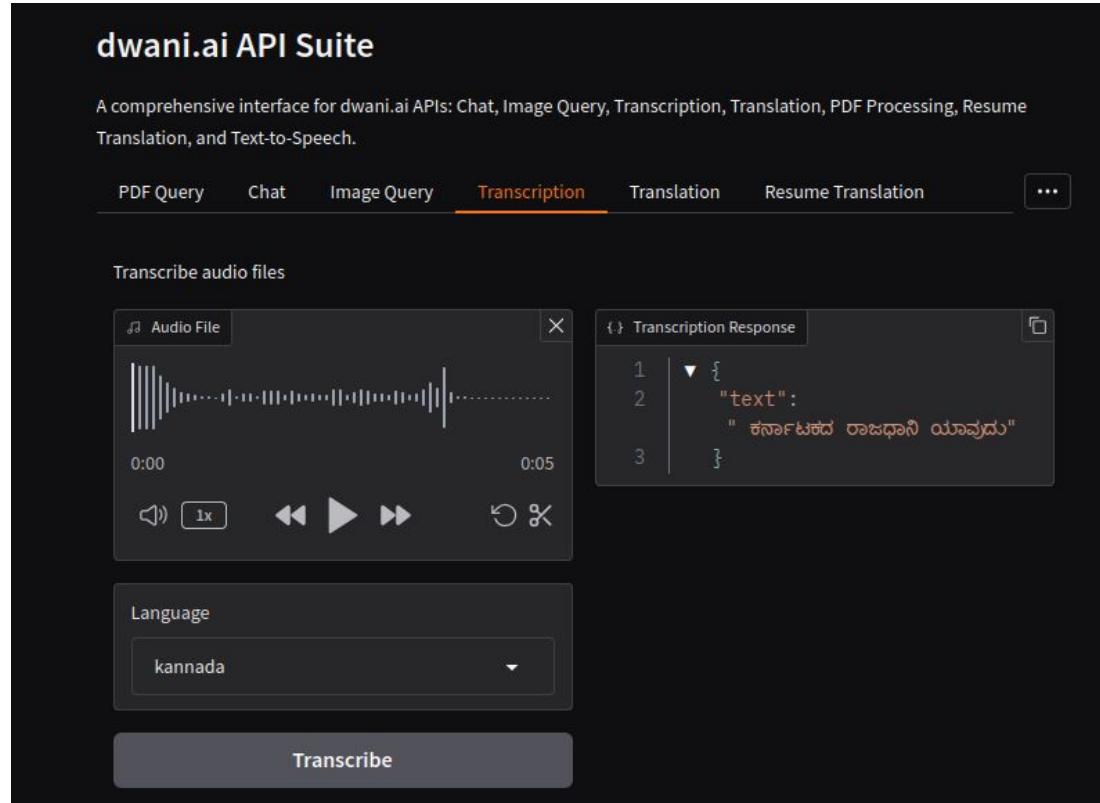
Transcription Response

1 {
2 "text":
3 "ಕರ್ನಾಟಕದ ರಾಜಧಾನೀ ಬೆಂಗಳೂರು"
4 }

Language

kannada

Transcribe



Text to Speech

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PDF Query Chat Image Query Transcription Translation Resume Translation ...

Convert text to speech

Text

ಕನಾದ ರಾಜ್ಯಾನಿ ಬೆಂಗಳೂರು.

Language

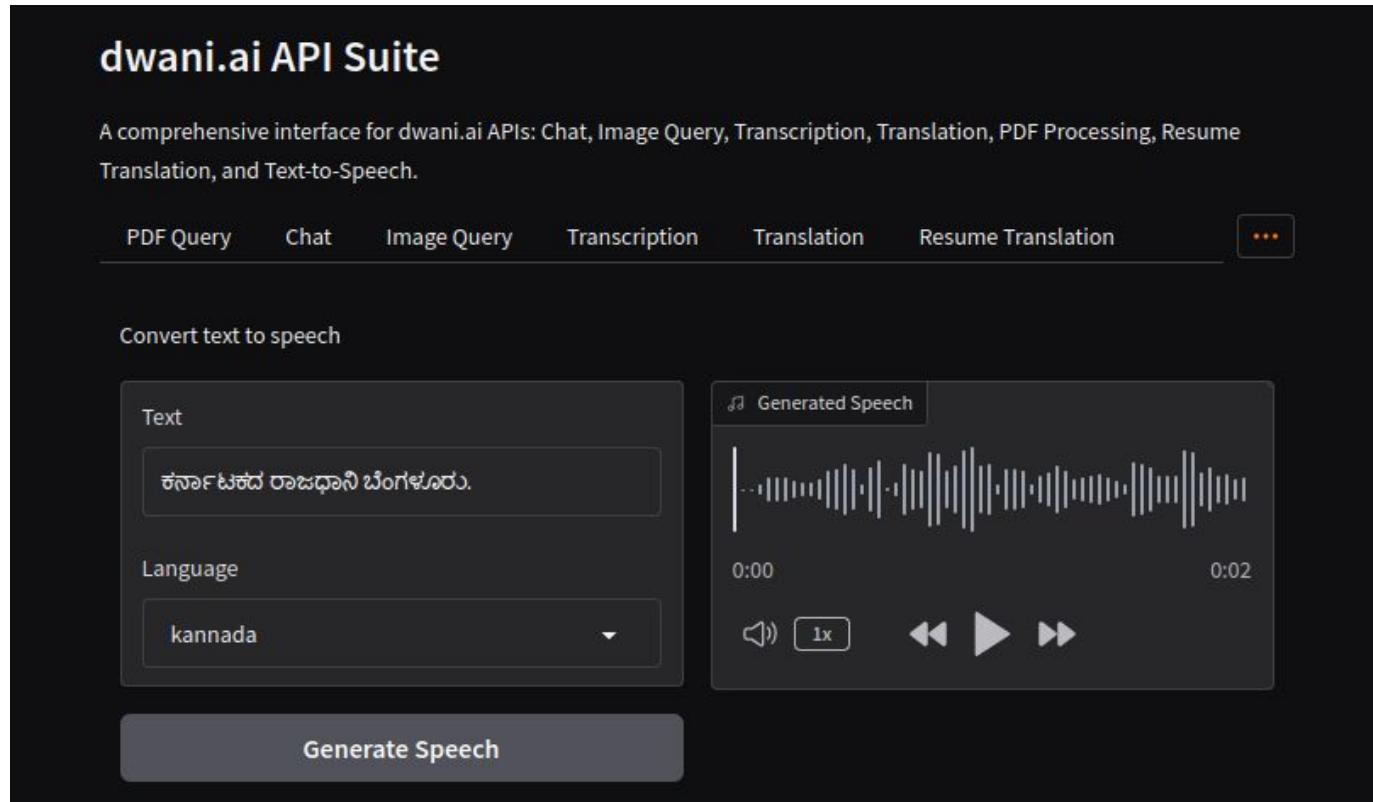
kannada

Generate Speech

Generated Speech

0:00 0:02

Speaker icon 1x ▶◀ ▶▶



Translation

dwani.ai API Suite

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PDF Query Chat Image Query Transcription **Translation** Resume Translation ...

Translate sentences between languages

Sentences
Hi, my name is sachin

Source Language
English

Target Language
Kannada

Translate

Translation Response

```
1 | ▼ {  
2 |   ▼ "translations": [  
3 |     "ಹಾಯ್.",  
4 |     "ನನ್ನ ಹೆಸರು ಸಚಿನ್"  
5 |   ]  
6 | }
```

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-server
Dwani Android App	https://github.com/slabstech/dwani-android

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

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>

