

# CITIZEN AI: Intelligent Citizen Engagement Platform

## 1.INTRODUCTION:

Citizen AI: Intelligent Citizen Engagement Platform

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## 2. PROJECT OVERVIEW:

The Citizen AI platform is a cutting-edge, AI-driven solution designed to enhance citizen engagement, improve government services, and foster a more responsive and inclusive community. Here's a comprehensive overview

- **Conversation Interface:**

A Conversation Interface in a Citizen AI Platform enables citizens to engage with government through natural chat or voice

It creates an intelligence engage system for faster services transparent communication and data-driven governance

- **Policy Summarization:**

Citizen AI uses policy summarization to present complex rules in simple, clear language for citizens.

This makes governance more transparent, accessible, and easy to understand for everyone.

- **Resources Forecasting**

Citizen AI applies resource forecasting to predict future needs and demands.

This helps governments ensure efficient allocation and timely delivery of public services.

- **Eco- Tip Generator**

Citizen AI's eco tip generator gives citizens daily suggestions to live sustainably. It promotes green habits and community-wide environmental awareness.

- **Citizen Feedback Loop**

Citizen AI's feedback loop collects and analyzes public opinions in real time. This ensures continuous improvement of services and stronger citizen trust.

- **KPI Fore Casting**

Citizen AI uses KPI forecasting to predict key performance outcomes of public services. This enables data-driven planning and proactive governance.

- **Anomaly Detection**

Citizen AI's anomaly detection spots unusual patterns in citizen data or service use. This helps ensure early issue detection and quick corrective action.

- **Multimodal Input Support**

Citizen AI's multimodal input support lets citizens interact via text, voice, or images. It ensures inclusive, accessible, and user-friendly engagement for all.

- **Streamlit to Gradio UI**

Citizen AI can shift from Streamlit to Gradio UI for more interactive, flexible citizen engagement.

This enables seamless AI demos, faster prototyping, and user-friendly interfaces.

### **3.Architecture:**

The architecture of Citizen AI integrates data sources, AI models, and citizen-facing interfaces.

It ensures secure, scalable, and efficient intelligent engagement across services.

- **LLM Integration**

Citizen AI's LLM integration enables natural, human-like conversations with citizens.

It provides context-aware answers and personalized service delivery.

- **Vector Search**

Citizen AI's vector search organizes and retrieves information with high accuracy.

It enables fast, relevant, and context-aware citizen query responses.

- **ML Modules**

Citizen AI's ML modules analyze patterns in citizen data to improve decision-making.

They enable predictive insights and smarter public service delivery.

### **4.Setup Instruction:**

Set up Citizen AI by deploying AI/ML models with secure data integration across services.

Then configure multichannel interfaces (chat, voice, web) for citizen interaction.

- **Prerequisites**

A citizen engagement platform requires secure infrastructure and integrated data sources.

It also needs AI/ML tools with multilingual, accessible user interfaces for effective interaction.

- **Installation Process**

The installation process involves configuring servers, databases, and AI/ML environments.

Next, deploy the citizen-facing UI with security, multilingual, and accessibility features.

## **5.FOLDER STRUCTURE:**

The folder structure includes separate modules for data, models, APIs, and UI components.

It ensures organized development, easy scaling, and smooth maintenance.

## **6.RUNNING THE APPLICATION:**

Run the Citizen AI application by starting backend services and launching the UI interface.

Citizens can then interact in real time through chat, voice, or web platforms.

## **7.API DOCUMENTATION:**

The API documentation provides detailed endpoints, request/response formats, and authentication methods.

It enables developers to integrate and interact with the Citizen AI platform efficiently.

## **8.AUTHENTICATION:**

Citizen AI uses secure authentication methods like OAuth, JWT, or API keys.

This ensures only authorized users access services and sensitive citizen data.

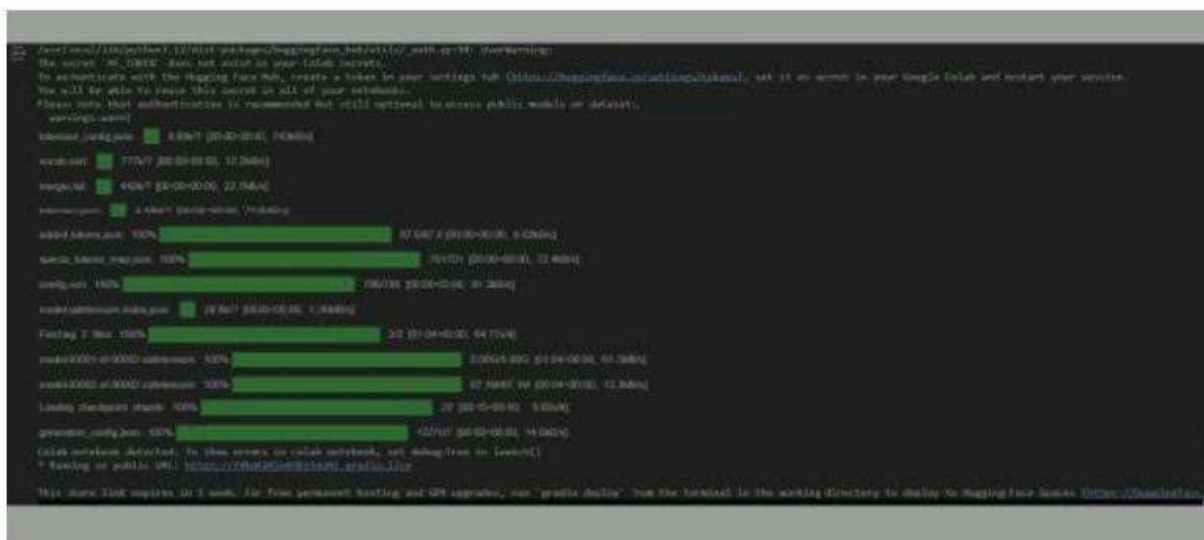
## **9.USER INTERFACE:**

The Citizen AI user interface offers intuitive chat, voice, and web interactions.

It ensures easy, accessible, and engaging citizen engagement across platforms.

## **10.TESTING:**

Testing Citizen AI involves validating AI responses, system workflows, and data integration.





```
63
64 with gr.TabItem("Citizen Services"):
65     with gr.Row():
66         with gr.Column():
67             citizen_query = gr.Textbox(
68                 label="Your Query",
69                 placeholder="Ask about public services, government policies, civic issues...",
70                 lines=4
71             )
72             query_btn = gr.Button("Get Information")
73
74         with gr.Column():
75             citizen_output = gr.Textbox(label="Government Response", lines=15)
76
77     query_btn.click(citizen_interaction, inputs=citizen_query, outputs=citizen_output)
78
79 launch(share=True)
```

THANK YOU...