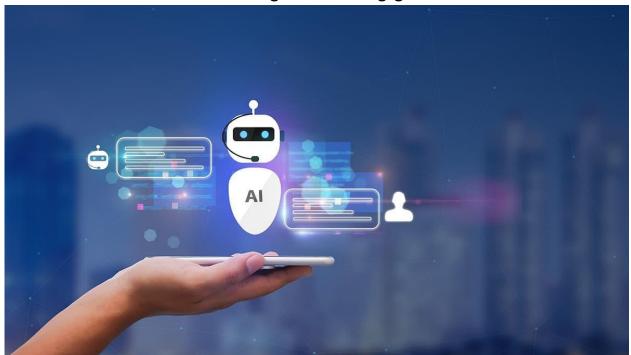
# **CITIZEN AI: Intelligent Citizen Engagement Platform**

1.INTRODUCTION: Citizen AI: Intelligent Citizen Engagement Platform



## **TEAM LEADER**

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### **TEAM MEMBERS**

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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 **intelligent engagement system** for faster services, transparent communication, and data-driven governance.

## Policy Summaization

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 Sector

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. It ensures accuracy, reliability, and seamless citizen interaction.

### 11.KNOWN ISSUES:

Known issues may include misinterpretation of queries, latency in responses, or integration bugs.

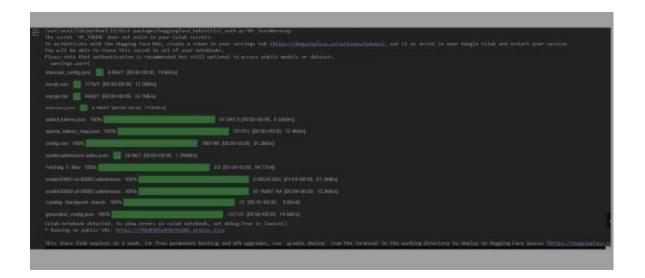
Addressing them ensures improved accuracy and smoother citizen engagement.

### **12.FUTURE ENHANCEMENT:**

Future enhancements include advanced multilingual support, predictive analytics, and proactive citizen alerts.

These upgrades aim to increase engagement, efficiency, and personalized public services.

#### 13.PROJECT SCREENSHOT:



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tokenizer = AutoTokenizer.from_pretrained(model_name)
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strondel_name,
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device_nape*suto* if torch.cude.is_available() else fone

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}

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if inputs = tokenizer(prompt, return_tensors="pt", truncation=True, max_length=512)

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