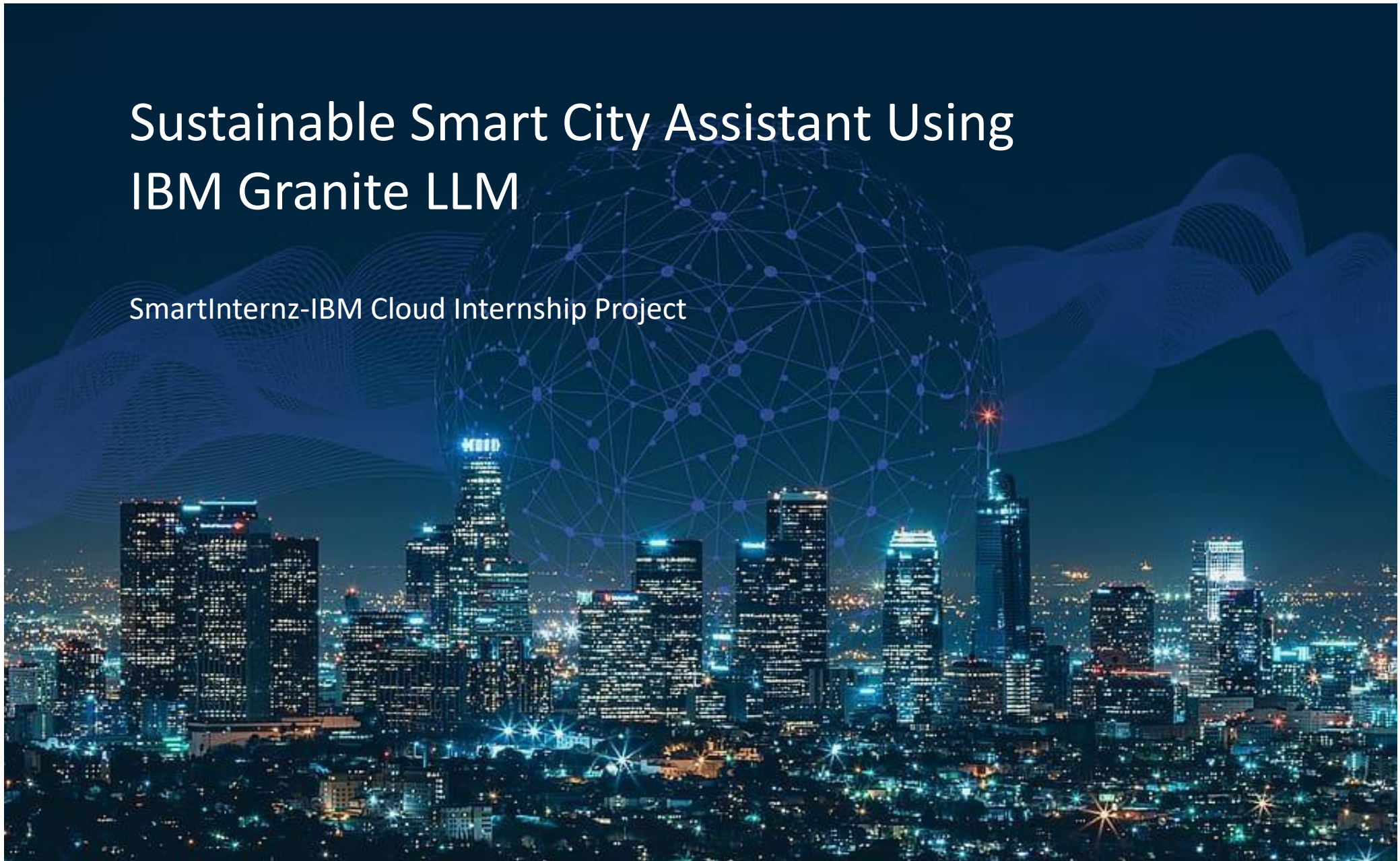


# Sustainable Smart City Assistant Using IBM Granite LLM

SmartInternz-IBM Cloud Internship Project





## Problem Statement:

Develop an AI-powered assistant using IBM Granite LLM to provide real-time, personalized support for sustainable smart city services.



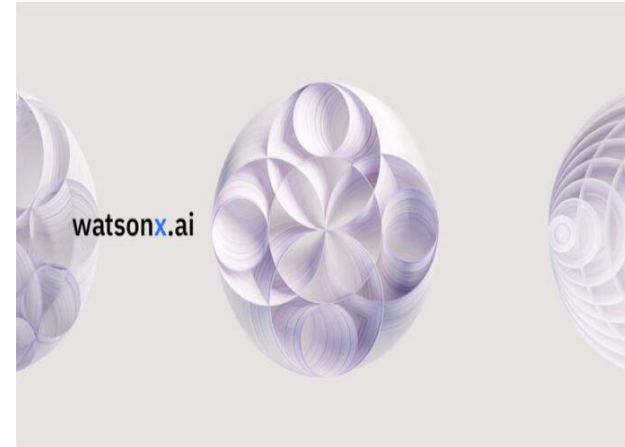
## Objectives:

- Develop an Intelligent Conversational Assistant
- Promote Sustainability in Urban Living
- Enable Real-Time Information Access
- Build an Easy-to-Use Interface
- Enable Future Expansions

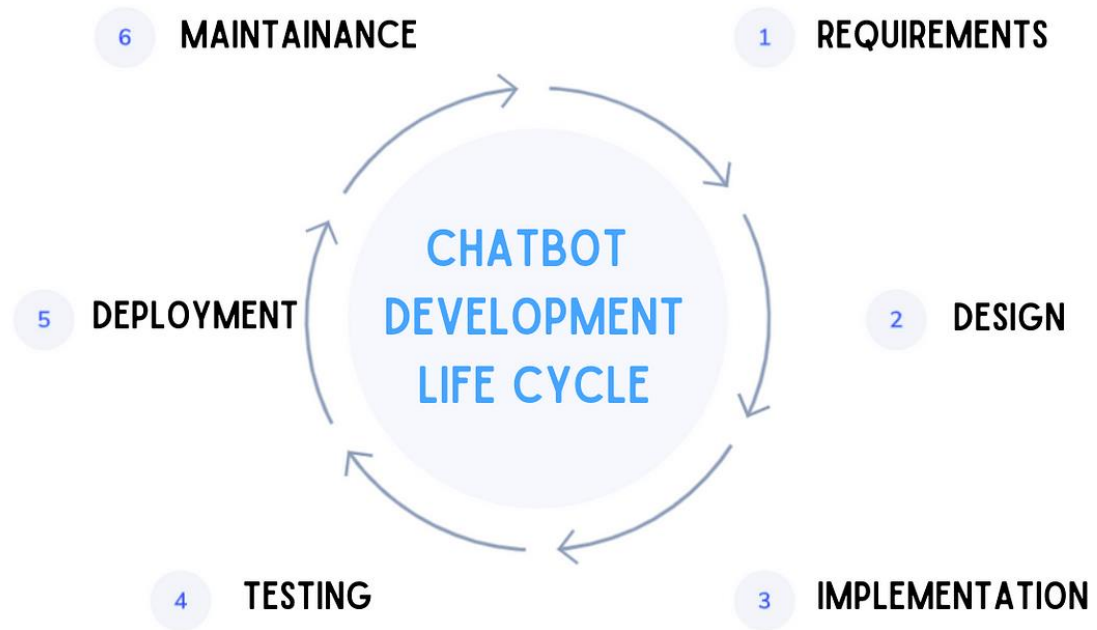


## Technologies Used:

- Watsonx.ai
- IBM Granite Large Language Model
- Python
- Streamlit



## SDLC:



## Key Features:

- **AI-Powered Conversational Assistant**
- **Sustainability-Focused Guidance**
- **Real-Time Query Resolution**
- **Interactive User Interface (Streamlit UI)**
- **Secure API Communication**
- **Deployable on Cloud**



## **Advantages:**

- **Provides accurate, human-like responses using IBM Granite LLM.**
- **Understands natural language, making interactions smooth and intuitive.**
- **Promotes eco-friendly practices in energy, water, waste, and transportation.**
- **Helps build citizen awareness about sustainability.**
- **Instantly answers user queries on smart city services.**
- **Eliminates the need to browse through lengthy websites or documents.**
-



## **Future Scope:**

- . Add speech recognition and text-to-speech  
for hands-free interactions.**
- . Useful for visually impaired users and  
public kiosks..**
- . Improve reach in diverse smart city  
populations.**
- . Connect with smart meters, sensors,  
and city infrastructure for real-time data-driven responses.**





*Thank You*

**By MadhuKiran Challapalli**

