**Smart-city-assistant**

Smart City Sustainability Assistant is a AI-powered tool built using IBM Granite LLM via Hugging Face. It helps citizens and city officials by answering sustainability-related queries, summarizing lengthy government documents into simple bullet points, and predicting resource usage based on user-provided data.

**Features**

Conversational assistant powered by IBM Granite LLM

PDF upload and text input for document summarization

Resource consumption prediction with user-provided data

Simple and intuitive Streamlit UI accessible via Google Colab

**How to Run**

Download all the files from this repository to your local machine.

Open the smart\_city\_assistant.ipynb notebook file in Google Colab: Go to https://colab.research.google.com/

Click Upload and select smart\_city\_assistant.ipynb from your downloaded files.

Upload the app.py file to the Colab environment: In the Colab left sidebar, go to the Files tab. Click Upload and select app.py from your local files.

Set your Hugging Face API token securely in the notebook: In the appropriate notebook cell, replace "your\_token\_here" with your own Hugging Face token. Run the cell to set the environment variable.

Run all remaining notebook cells in order to: Install dependencies, Load the IBM Granite LLM model from Hugging Face, Start the Streamlit app using a public URL tunnel.

When the notebook finishes running, copy the provided public URL and open it in your browser to access the Streamlit app UI.

**Output**











