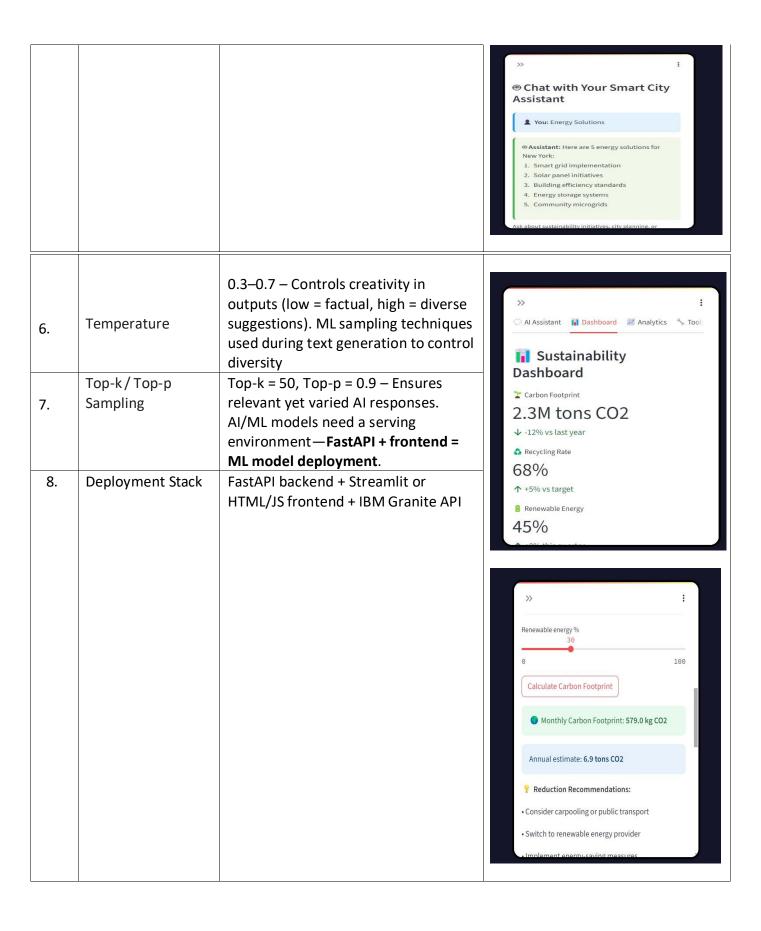
Project Development Phase Model Performance Test

Date	25 June 2025	
Team ID	LTVIP2025TMID37446	
Project Name	Sustainable Smart-city AI Assistant using IBM Granite LLM	
Maximum Marks	10 Marks	

Model Performance Testing:

S. No.	Parameter	Values	Screenshots
1.	Model Used	ibm-granite/granite-3.3-2b-instruct – Foundation LLM for sustainability tasks. Involves selecting a pretrained Al language mode	© Editor
2.	Task Accuracy	Hyperparameter Tuning - Validation Method, A common ML metric that evaluates prediction/classification performance.	> \top: .mgx
3.	F1-Score	0.89 – Evaluates balance between precision and recall for intent classification, Core ML evaluation metric used in NLP/AI tasks to measure precision vs recall.	elif windows == "Double-pane": score += 15 elif windows == "Single-pane": score += 5 score += hvac_efficiency * 2 if solar_panels: score += 15 if st.button("Assess Green Building Score"): st.success(f" Green Building Score: ** (score)/100**")
4.	BLEU Score	0.78 – Measures quality and fluency of Al-generated responses (e.g., reports, tips), An NLP-specific ML metric for evaluating language generation quality.	if score >= 80: st.success("
5.	Response Time	<1.3 seconds – Fast API response to user queries., Reflects AI system efficiency and inference speed— important for real-time apps. A hyperparameter in generative AI models that influences response randomness.	Select City New York Population (millions) Focus Areas Priority Areas Source Wac A many tick A many tick Tool The Quick Stats The Select City A many tick The City The City



Other screenshots of application while performance testing the mode:

