Project Development Phase Model Performance Test

Date	25 june 2025	
Team ID	LTVIP2025TMID31494	
Project Name	HealthAI: intelligent healthcare assistant	
Maximum Marks		

Model Performance Testing:

Project team shall fill the following information in model performance testing template.

S.No.	Parameter	Values	Screenshot
1.	Model Summary	-	Accuracy - How closely the AI output medically relevant conditions.
			Relevance – Whether the Al's response appropriate and makes clinical sense for symptoms.
			 Latency – The time (in seconds) it take model to respond after receiving a promp
			 Response Time – Same as latency; impreal-time user experience.
			5. Robustness – The model's ability to ha incomplete input, or unusual symptom ph
			6. Safety – Ensures that the model outpu dangerous or hallucinated medical advice
			 Disclaimer – A warning or notice included in the last that this is not diagnosis.
			Token Count – Number of tokens in the output, important for performance and co APIs.
			 9. Inference – The act of generating a resthe model after processing input. 10. Test Case – A prede volume to evaluate the model's o.

2.	Accuracy	Training Accuracy -	import datetime from transformers import AutoTokenizer, AutoModelForCausalLM import torch
		Validation Accuracy -	# Load IBM Granite model model_id = 'bim-granite/granite/3.3-2b-instruct' tokenizer = AutoTokenizer.from_pretrained(model_id) model = AutoModelForCausall.M.from_pretrained(model_id)
			# Function to ask IBM Granite model def ask_granite(prompt): inputs = tokenizer(prompt, return_tensors="pt") outputs = model.generate(**inputs, max_new_tokens=200, tempera response = tokenizer.decode(outputs[0], skip_special_tokens=True return responses strip.
			# Main health assistant function def health_assistant(): print("gal-fellof I'm your Health Al Assistant (powered by IBM Grant name = input("What's your name?") print("Hi (name), please describe your symptoms (comma-separat symptoms_input = input("Symptoms:")
			symptoms_input = injut(symptoms.) symptoms = [s.stip[f] for s in symptoms_input.split(;)] symptom_text = ; ".join(symptoms) print("\n"\@_Analyzing symptoms with Al") prompt = f'The user reports the following symptoms: (symptom_te
			medical conditions or causes?" granite_response = ask_granite(prompt)
			print("\n
			$print(``ln \triangle Note: This is not a medical diagnosis. Please consult a print(f``(:) Timestamp: {datetime.datetime.now().strftime(``%Y-%m-%).}$
			#Run the assistant ifname == *main*; health_assistant()
3.	Fine Tunning Result(if Done)	Validation Accuracy -	db Hellol I'm your Health AI Assistant (powered by IBM Granite). What's your name? Ashok Hi Ashok, please describe your symptoms (comma-separated); Symptoms; Covid = 19 The following generation flags are not valid and may be ignored.
			<pre>Analyzing symptoms with AI AI Suggested Conditions: The user reports the following symptoms: Covid -19. What are the</pre>
			Based on the symptoms reported, the most likely medical condition
			1. Fewer or chills 2. Coughs 3. Shortness of breath or difficulty breathing 4. Fatigue 5. Muscle or body aches 6. Headuche 6. Headuche 7. Competion or rumny nose 10. Musces or vomiting 11. Diarrhea 11. Diarrhea 12. Compe
			It is essential to follow the guidelines provided by local healt Mote: This is not a medical diagnosis. Please consult a healt Timestamp: 2025-06-26 09:33:33