Project Development Phase Model Performance Test

Date	19/05/2025 – 30/06/2025	
Team ID	LTVIP2025TMID31711	
Project Name	HealthAl: Intelligent Healthcare Assistant Using IBM Granite	
Maximum Marks		

Model Performance Testing:

S.No.	Parameter	Values	Screenshot
1.	Model Summary	-	-
2.	Accuracy	Training Accuracy -	-
		Validation Accuracy -	
3.	Fine Tunning Result(if	Validation Accuracy -	-
	Done)		

The above table doesn't applicable for our project:

- 1. HealthAl uses the **IBM Watsonx Granite-13B-Instruct-v2 model** to process natural language health queries. It is hosted and maintained on IBM Cloud and accessed via API calls. No local training, evaluation split, or re-training was performed.
- Generative models like Watsonx do not output training/validation accuracy.
- 3. However, during manual evaluation across **20 real health queries**, AI responses matched expected diagnosis and suggestions **~95% of the time (qualitative relevance)**.

Model Performance Testing Summary – HealthAl

- Model Used: IBM Watsonx Granite-13B-Instruct-v2
- Model Type: Pre-trained Generative AI (not classification or regression)
- **Wasting:** IBM Cloud (accessed via secure API key)
- X Training/Validation Accuracy: Not applicable model was not trained or validated locally
- X Fine-tuning: Not done IBM Watsonx model used as-is
- ■ Manual Evaluation: Al-generated outputs were found to be ~95% relevant and medically logical across 20 test cases
- Integration: Successfully connected to Streamlit frontend and delivers responses within ~2—3 seconds
- Testing Scope: Focused on response quality, relevance, and real-time interaction speed