

Functional & Performance Testing Template

Model Performance Test

Date	19 February 2026
Team ID	LTVIP2026TMIDS62229
Project Name	Exploratory Analysis of Rain Fall Data in India for Agriculture
Maximum Marks	

Test Scenarios & Results

Test Case ID	Scenario (What to test)	Test Steps (How to test)	Expected Result	Actual Result	Pass/Fail
FT-01	Text Input Validation	Enter alphabetic characters or special symbols in numeric input fields (e.g., MinTemp)	System should show validation error and prevent submission	—	—
FT-02	Number Input Validation	Enter valid and invalid numeric values (e.g., negative rainfall, extremely high temperature)	Accept valid values and show error for invalid or empty inputs	—	—
FT-03	Prediction Functionality	Enter valid weather inputs and click "Predict"	System displays Rain / No Rain result with probability	—	—
FT-04	Model Loading	Restart Flask app and check model loading	Model loads successfully without error	—	—
FT-05	Probability Display	Submit valid inputs	Prediction result shows probability percentage (e.g., 66%)	—	—
PT-01	Response Time Test	Measure time between	Prediction result should	—	—

		clicking Predict and showing result	appear within 2 seconds		
PT-02	Concurrent Request Test	Submit multiple prediction requests simultaneously	System handles requests without crashing	—	—
PT-03	Server Stability Test	Keep application running for extended time	Application remains stable without unexpected shutdown	—	—
PT-04	Deployment Test	Run application on local server or cloud	Application accessible via browser URL	—	—