

Rising Waters: A Machine Learning Approach to Flood Prediction

DATE	28-02-2026
TEAM ID	LTVIP2026TMIDS89043
PROJECT NAME	Rising Waters: A Machine Learning Approach to Flood Prediction
MAXIMUM MARKS	5 MARKS

7.1 FUNCTIONAL AND PERFORMANCE TESTING:

◆ Functional Testing

- Input validation (no empty/invalid values)
- Correct flood risk prediction (Low / Moderate / High)
- Accuracy evaluation (Accuracy, Precision, Recall, F1-score)
- Proper result display in Flask web app
- Alert colour coding works correctly

◆ Performance Testing

- Response time within 1–2 seconds
- Handles multiple user requests
- Stable under extreme input values
- Scalable for district/state-level deployment

✓ Result

- System predicts flood risk accurately
- Web application runs smoothly
- No crashes under normal load
- Suitable for real-time flood warning use