

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	4 MARKS

2.2 EMPATHY MAP CANVAS

EMPATHY MAP:

THINK & FEEL

- Worried about sudden and unpredictable flood events
- Fear of casualties and infrastructure damage
- Pressure to ensure public safety
- Concerned about accuracy of existing forecasting systems
- Motivated to improve preparedness and response time

SEE

- Increasing frequency of floods due to climate change
- Damage to roads, homes, and public infrastructure
- Communities living in high-risk zones
- Limited integration of real-time data systems

HEAR

- Climate experts warning about extreme weather risks
- Public demanding better early warning systems
- Government policies on disaster preparedness
- Media criticism during disaster mismanagement

SAY & DO

- "We need accurate and real-time flood predictions."
- Monitor rainfall and river-level dashboards
- Plan evacuation strategies
- Allocate emergency funds and resources
- Coordinate with response teams

PAINS

- Delayed or inaccurate flood warnings
- Data silos between departments

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- High economic losses
- Slow emergency response
- Public distrust after disasters

GAINS

- Reliable real-time prediction system
- Faster evacuation planning
- Reduced loss of life and property
- Data-driven decision making
- Increased public trust and resilience

