Project Design Phase
Solution Architecture

Date	15 February 2026
Team ID	LTVIP2026TMIDS24126
Project Name	Rising Waters – A Machine Learning Approach to Flood Prediction
Maximum Marks	4 Marks

Solution Architecture:

Solution architecture for the *Rising Waters* project bridges the gap between real-world flood management challenges and an intelligent Machine Learning-based technological solution. It defines how environmental data, predictive analytics, and alert mechanisms are integrated into a unified system to support early warning and disaster response.
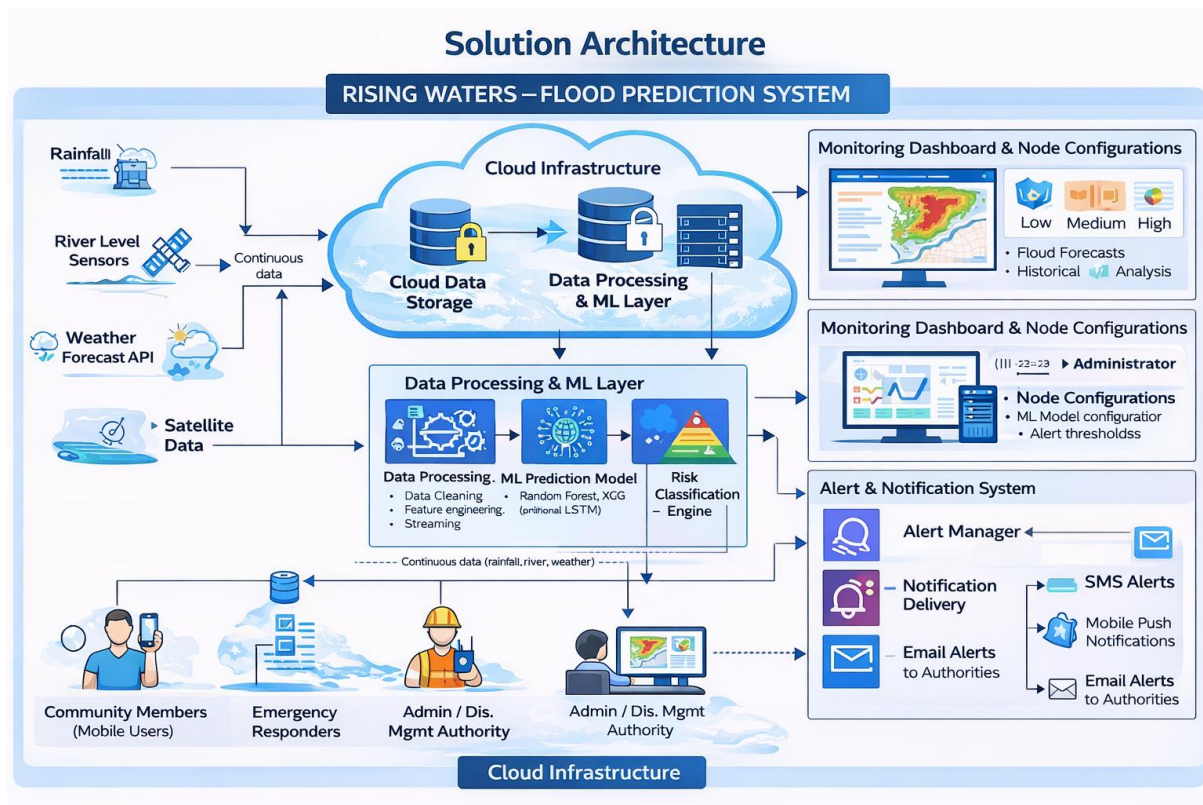
Example - Solution Architecture Diagram:

Figure 1: Architecture and data flow of the voice patient diary sample application

Reference: https://aws.amazon.com/blogs/industries/voice-applications-in-clinical-research-powered-by-ai-on-aws-part-1-architecture-and-design-considerations/