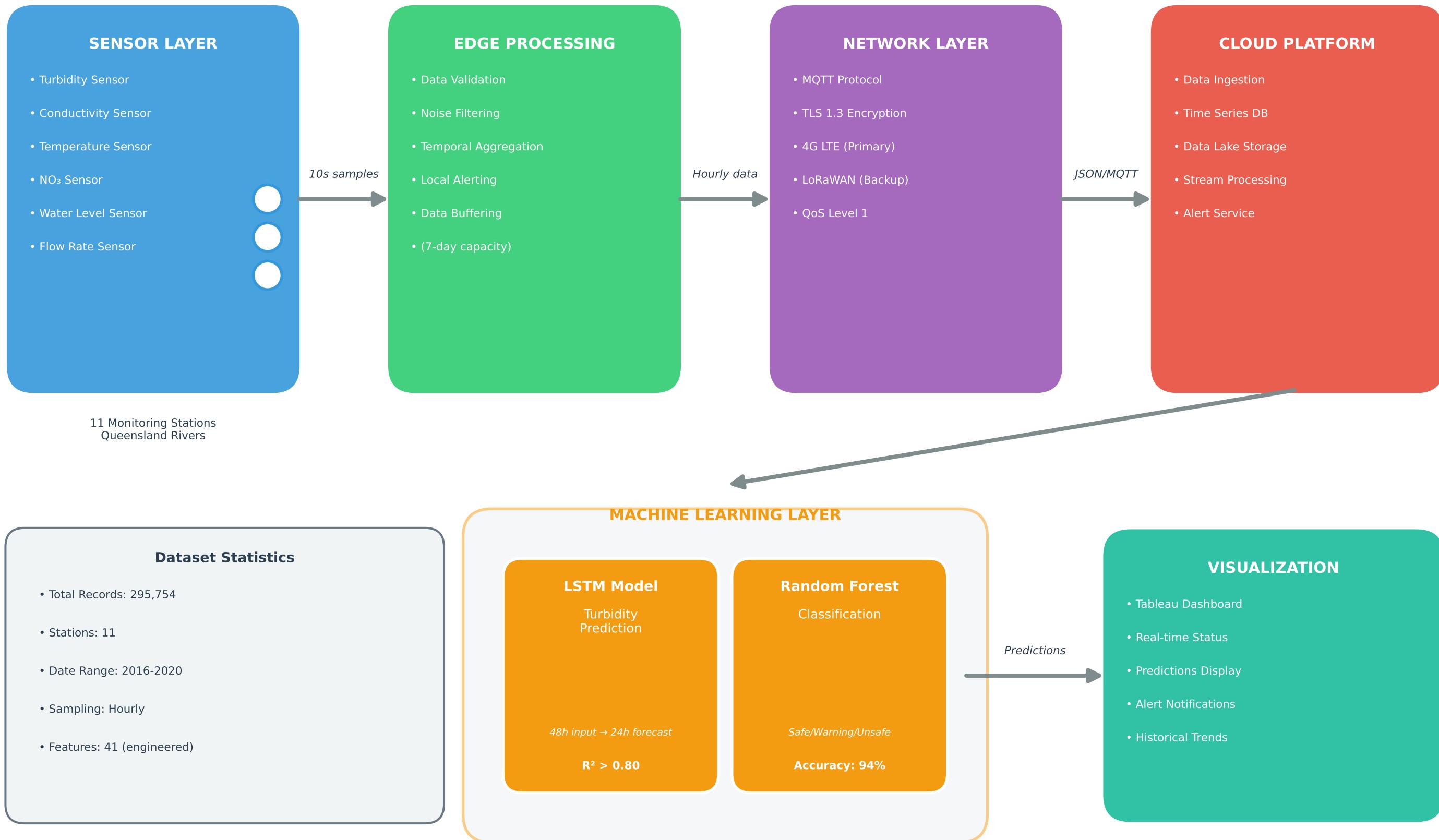


IoT Water Quality Monitoring System Architecture

Smart Water Quality Monitoring Using IoT & Machine Learning



Water Quality Thresholds:

Safe	Turbidity < 5 NTU
Warning	Turbidity 5-50 NTU
Unsafe	Turbidity > 50 NTU

Communication Protocol:

- MQTT v3.1.1 + TLS 1.3
- Primary: 4G LTE Cellular
- Backup: LoRaWAN
- QoS Level 1 (at least once)