1. Real-Time Prediction Outputs

Earthquake Risk Assessment (Sample API Response)

2. Early Warning System Output

SMS Alert Received by Residents

[EMERGENCY ALERT] FLOOD WARNING

Location: 3km radius of 34.0522°N, 118.2437°W

Severity: High (78% probability)

Expected: 2023-11-15 14:00-18:00 PST

Action: Evacuate to Shelter #42 via Route A

Shelter Capacity: 320/400 (Updated 5min ago)

3. Evacuation Route Optimization

Optimal Path Calculation

```
geojson
"type": "FeatureCollection",
"features": [
    "type": "Feature",
    "properties": {
      "route_id": "evaq-1142-a",
      "disaster_type": "wildfire",
      "population_served": 2450,
      "estimated_clearance_time": "2h15m",
      "route_priority": 1
    },
    "geometry": {
      "type": "LineString",
      "coordinates": [
        [-118.2437, 34.0522],
        [-118.2401, 34.0488],
        [-118.2315, 34.0422]
```

4. Model Performance Metrics

Earthquake Prediction Accuracy

	precision	recall	f1-score	support
0	0.97	0.99	0.98	18245
1	0.89	0.76	0.82	1755
accuracy	,		0.96	20000
macro avg	0.93	0.88	0.90	20000
eighted avg	0.96	0.96	0.96	20000