Computer Vision (Object Detection & Segmentation)

Use: Analyzes drone and satellite imagery to assess infrastructure damage and prioritize reconstruction.

Benefits:

- Accelerates needs assessments and damage mapping in inaccessible areas.
- Supports efficient planning for rebuilding and aid allocation.

Risks and Mitigations:

- **Invasive Surveillance**: civilian movement may be unintentionally tracked + Legal/geographic restrictions on camera and drone use in civilian zones.
- **Model Bias**: biased training data may skew rebuilding priorities + Diverse datasets and continuous bias-mitigation processes.