

KPIs: Land Type Classification using Sentinel-2 Satellite Images

1. Model Accuracy:

- **Target:** Achieve at least 90% accuracy on the test set.
- **Measurement:** Evaluate using classification metrics like accuracy, precision, recall, and F1-score.

2. Response Time:

- **Target:** Ensure the deployed model responds within 2 seconds for each classification request.
- **Measurement:** Monitor response time using tools like Prometheus or Grafana.

3. System Uptime:

- **Target:** Maintain 99.9% system uptime for the deployed model.
- **Measurement:** Track uptime using cloud monitoring tools like AWS CloudWatch or Google Cloud Monitoring.

4. User Adoption Rate:

- **Target:** Achieve a user adoption rate of 80% within the first 3 months of deployment.
- **Measurement:** Track the number of active users and their feedback through surveys or usage analytics.

5. Model Retraining Frequency:

- **Target:** Retrain the model every 3 months to incorporate new data and maintain accuracy.
- **Measurement:** Monitor model performance and schedule retraining based on accuracy drops or new data availability.