Project Plan: Land Type Classification using Sentinel-2 Satellite Images

1. Timeline (Gantt Chart):

Task	Start Date	End Date	Duration
Milestone 1: Data Collection, Exploration & Preprocessing	Week 1	Week 4	4 weeks
Milestone 2: Advanced Data Analysis & Model Selection	Week 5	Week 8	4 weeks
Milestone 3: Model Development & Training	Week 9	Week 12	4 weeks
Milestone 4: Deployment & Monitoring	Week 13	Week 16	4 weeks
Milestone 5: Final Documentation & Presentation	Week 17	Week 18	2 weeks

2. Milestones and Deliverables:

Milestone	Deliverables
Milestone 1	EDA Report, Cleaned Dataset, Visualizations
Milestone 2	Data Analysis Report, Model Selection Summary, Visualizations
Milestone 3	Model Code, Training and Evaluation Reports, Final Model
Milestone 4	Deployed Model, Monitoring Setup, MLOps Report
Milestone 5	Final Project Report, Final Presentation

3. Resource Allocation:

- **Data Scientists**: 2 (for data collection, preprocessing, and model development)
- **Machine Learning Engineers**: 2 (for model training, optimization, and deployment)
- **DevOps Engineer**: 1 (for deployment and monitoring setup)
- **Project Manager**: 1 (for overall project coordination and stakeholder communication)