

# Final Project Proposal

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**Classifying Objects:**  
**Training pictures and satellite imagery**

# Proposal

Goal: Use statistical models, tools and techniques to classify objects on electro optical imagery

Objectives: Identify objects such as buildings, roads, tracks, trees, waterway, standing water, and vehicles

# Plan

Method: Use Transfer Learning by taking trained models and using them for new model predictions

Tools: VM, Jupyterlab and Python/data science libraries (TensorFlow, Numpy, Pandas, etc...)

Datasets: Data from Kaggle, ImageNet and Google

# Scope of Project

- Start with small datasets
- Learn process by using various techniques to classify objects
- Develop better understanding of statistical modeling, Machine Learning (DL)
- Scale project with commercial satellite imagery