ADVANCED MACHINE LEARNING

PROJECT PROPOSAL: Satellite Image Classification

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The proposal for the open project is this dataset from Kaggle:

https://www.kaggle.com/datasets/mahmoudreda55/satellite-image-classification/

This dataset has 4 different classes mixed from Sensors and google map snapshot: Cloudy (1500 images), Desert (1131 images), Green area (1500 images), and Water (1500 images). The whole dataset has 5631 images with jpg format and the images are in colour.

We chose this specific dataset as we think it is a dataset of good quality where we can perform a simple classification that will allow us to put into practice everything we have learnt in this part of the AML course.

Regarding related works, we cite the following paper:
https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9393553
Alongside with this larger scale analysis:
https://arxiv.org/ftp/arxiv/papers/1705/1705.10450.pdf