

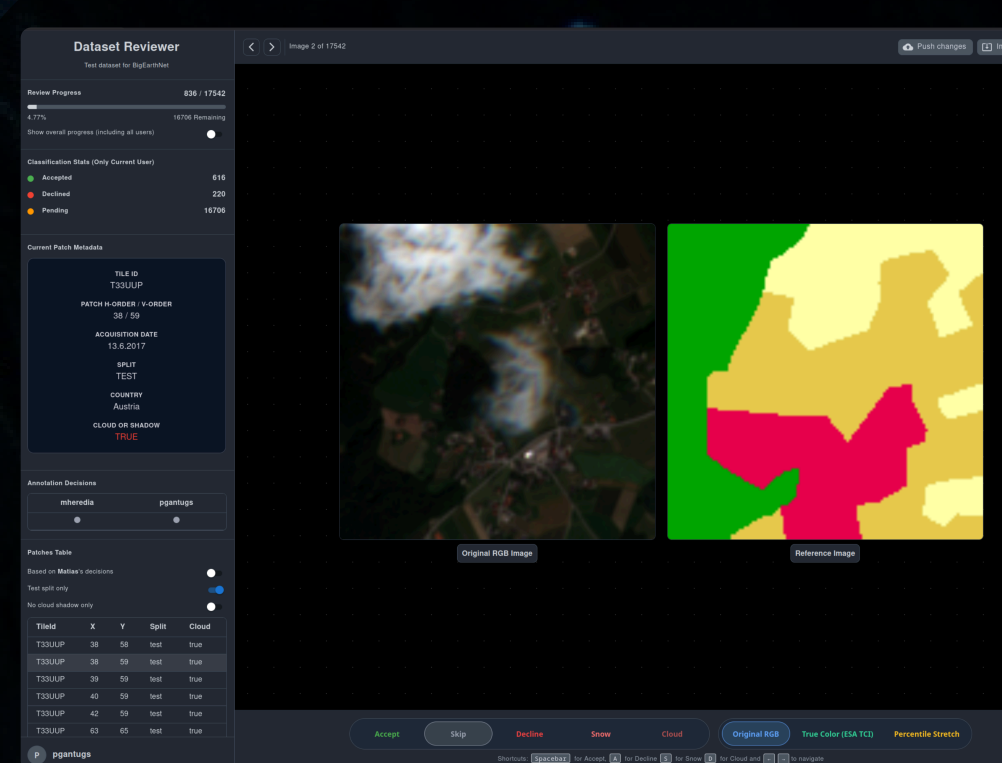
CLSFAI

An Artificial Intelligence Based Satellite Imagery Classifier

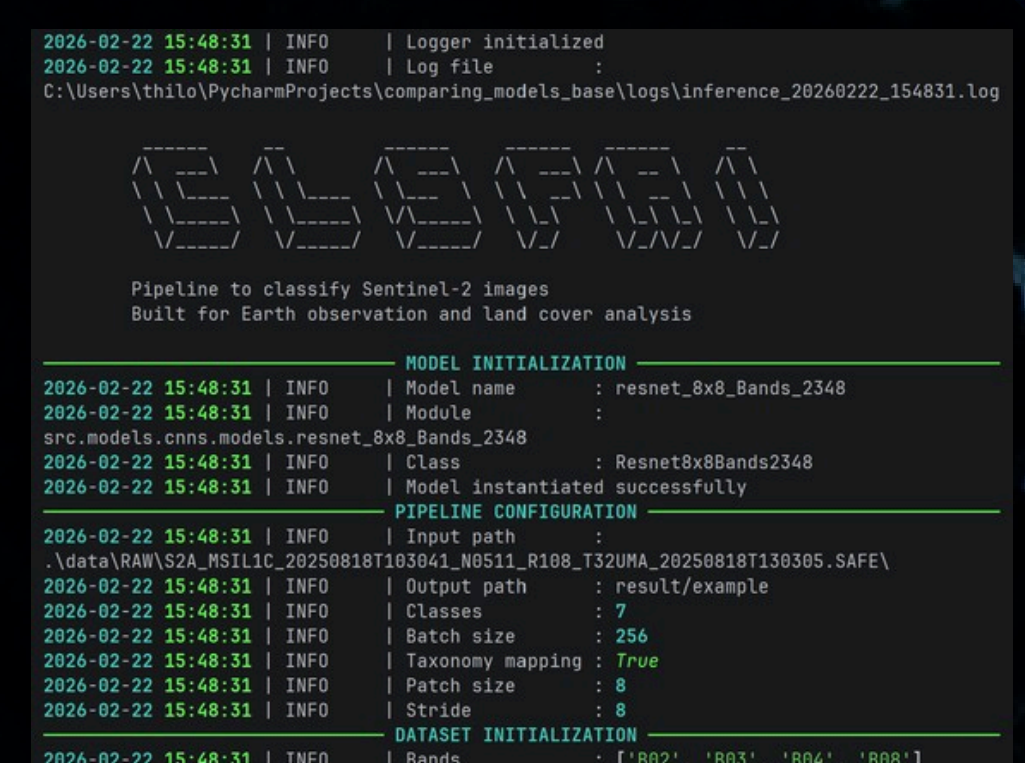
The Project

We developed a scalable and automated framework for landscape scene classification using multi-spectral imagery from the Sentinel-2 satellite constellation. The system combines classical remote sensing techniques with modern deep learning models to accurately identify and classify different surface types. Designed for remote sensing analysts and operational environments, the solution provides an end-to-end command-line tool that processes satellite imagery and outputs classification maps with reliability metrics. Beyond deployment, the project evaluates multiple AI approaches and establishes a flexible machine learning software stack for reproducible training, inference, and benchmarking.

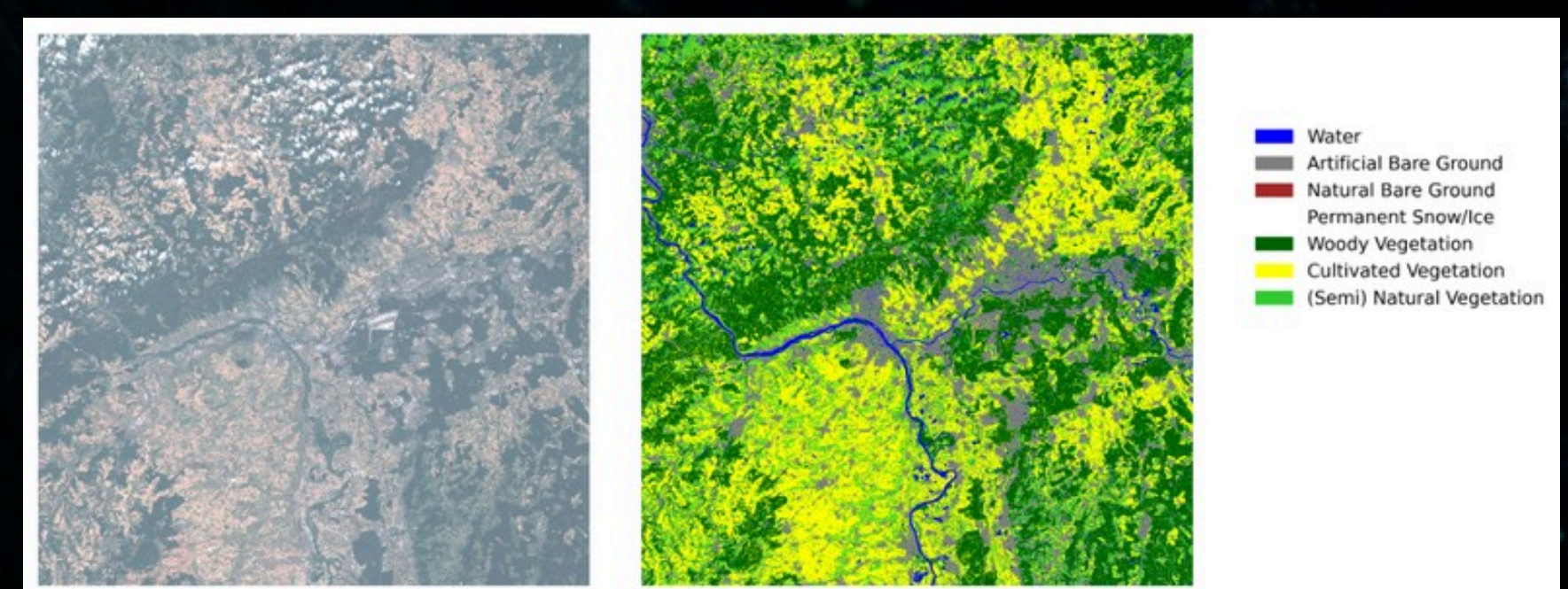
Features



Dataset Reviewer



End-to-end CLI Pipeline



Pixelwise classification

