



MASTER'S THESIS PROJECT AT PANDIONAI: AUTOMATION OF AI MODEL HYPERPARAMETER TUNING AND FEATURE EXTRACTION APPLIED TO EARTH OBSERVATION

Are you passionate about staying on the cutting edge of Computer Vision, Artificial Intelligence, and Earth Observation from space?

Join us at PandionAI for your Master's Thesis and embark on the development of our satellite constellation AlertSat.

Project Overview

In this endeavor, you will lead the design and implementation of an automated data processing pipeline that harnesses satellite imagery and other pertinent data sources. The goal is to fine-tune AI models for deployment in space using state-of-the-art edge computing platforms. This project leverages cloud computing infrastructure and cutting-edge AI models, requiring meticulous hyperparameter tuning to optimize performance. The primary objective is to ensure accurate and timely delivery of critical information, facilitating well-informed decision-making processes.

Job Type: Master Thesis / Internship

Location: Kista (Stockholm), with a hybrid remote work option

Scope of Project

- Develop feature extraction techniques from satellite data.
- Design and implement a data pipeline that transforms raw satellite imagery into finely-tuned AI models, ensuring high-precision information generation.
- Evaluate and report performance using various AI models.
- Utilize visual representations to effectively communicate results.
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About PandionAI

PandionAI, established in 2019, is an innovative start-up company in the space industry, specializing in Earth Observation, with a strong focus on downstream applications and AI/IT development. We are seeking passionate individuals to join us on our journey to put the AlertSat satellite constellation in space and to contribute to shaping the development of AlertSat's services in close collaboration with our dynamic team.

At PandionAI, our mission is to secure time-critical intelligence through AI-based analysis from our AlertSat satellite constellation. We are currently working on a system that utilizes image recognition for event detection directly on board the satellites, enabling real-time information delivery. Our ultimate goal is to bridge the gap between satellite data collection and end users, resulting in enhanced safety, transparent information dissemination, and rapid response to events happening on Earth's surface. We empower our users with the ability to make informed decisions in the face of rapid changes and critical events.

Interested? Send your CV and some description of why your interest in this project is of extra-large interest to PandionAI to career@pandionai.com.