

# Pantelis Kouridakis

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## Summary

AI / Machine Learning Engineer with a BSc in Computer Science and Engineering and hands-on experience in machine learning, Earth Observation (EO) data, and AI-driven web applications. Developed wildfire risk prediction systems using ML models and geospatial data, and built end-to-end AI solutions with Python, Flask, and REST APIs. Strong interest in space, satellite data, and applied AI for real-world decision support.

## Education

University of Peloponnese (UOP) *Department of Digital Systems*

2015-2023

BSc in Computer Science and Engineering 240 ECTS

Sparta, Greece

Thesis Mechanisms for Analyzing 3D Point Clouds (Grade: 10/10)

Key Courses Machine Learning, Artificial Intelligence, Pattern Recognition, Data Mining, Advanced Algorithms, Distributed & Parallel Programming

## Work Experience

AI Developer (Intern) – Prometheus Space Technologies

2025-Present

Responsibilities

London, UK

- Developed a wildfire risk prediction system using machine learning and Earth Observation data.
- Trained and evaluated ML models (classification & regression) for geospatial risk estimation.
- Built a full-stack AI web application with Flask (backend) and React (frontend).
- Integrated real-time weather and geospatial APIs for dynamic predictions.

Tech Stack Python, Flask, Scikit-learn, Pandas, React.js , PostgreSQL, GeoJSON, Rest APIs

AI / Automation Engineer – Generali Hellas

2024-Present

Responsibilities

Athens, Greece

- Led RPA initiatives using Microsoft Power Platform, automating 20+ processes and reducing operational costs.
- Designed and deployed an AI-powered chatbot using LangChain and LLMs to automate internal workflows.
- Integrated Python-based AI components with enterprise automation solutions.
- Trained team members on Power Automate, boosting team productivity.

Tech Stack Power Automate, SQL, Python, Pandas, LangChain

## Automation Engineer – Aambience Services

2022-2024

### Responsibilities

- Developed and maintained end-to-end automation solutions using Microsoft Power Platform.
- Collaborated with cross-functional teams to analyze processes and deliver scalable automation.

Tech Stack Power Automate, SQL, Python

## SAP Consultant – GVision

2021-2022

### Responsibilities

Athens, Greece

- Managed design, configuration, and support of SAP Business One solutions.
- Worked closely with clients to tailor ERP systems to business requirements.

Tech Stack SAP BI, SQL, C#

## Core Competencies

Machine Learning & AI: Python, Scikit-learn, Pandas, NumPy, Matplotlib, OpenCV, LangChain, LLMs

Geospatial & EO Satellite data, GeoJSON, Weather & Geospatial APIs

Backend & APIs: Flask, REST APIs, PostgreSQL

Behavioral: Ownership, Teamwork, Problem-solving, Communication

## Projects

### NDVI Vegetation Monitoring System

- Developed a satellite-based vegetation monitoring system by computing NDVI from multispectral imagery, implementing raster processing and geospatial visualization for environmental analysis and risk assessment.

### Wildfire Risk Prediction System

- AI-based system predicting wildfire risk based on geographic location.
- ML-driven risk estimation combined with geospatial visualization for decision support.

### AI Chatbot (LangChain & LLMs)

- Conversational AI assistant automating information retrieval and internal workflows.

## Certifications & Courses

- Machine Learning Specialization – Stanford University
- Forest Monitoring with AI – WEkEO
- Monitoring Land Use with AI – WEkEO
- Marine Data for Arctic with AI – WEkEO
- Space 4 Beginners – Corallia

## Languages

- Greek (Native)
- English (Professional)