

AI/ML & IVV Engineer for EO Satellite Imagery

Description

WGS is looking for an experienced **AI/ML Development & IVV Engineer** to support EUMETSAT.

The role focuses on the **development and validation of automated landmark detection for satellite imagery**, combining **Earth Observation and verification & validation** expertise. The position is **off-site**.

Responsibilities

- Review and evaluate AI/ML and image-processing approaches for automated landmark and feature detection in satellite imagery.
- Design, develop and maintain a modular **Python-based solution** for satellite image analysis and geometric quality assessment.
- Develop and apply AI/ML models to representative **GEO and LEO Earth Observation data**.
- Define and perform **verification and validation activities**, including data analysis, accuracy assessment and comparison with existing methods.
- Prepare and analyse validation datasets and support the testing and evaluation of the developed solution.
- Maintain the software using **Git-based configuration management** and ensure a well-structured, documented and maintainable solution.
- Contribute to technical documentation, reports, reviews and presentations throughout the project.

Qualifications

The Candidate shall have the following attributes and skills:

Mandatory Requirements

- University degree in **Computer Science, Engineering, Remote Sensing, Geodesy, Physics** or a related field.
- At least **3 years of professional experience** in AI/ML, Earth Observation, remote sensing, image processing, software engineering, verification & validation or a related technical field.
- Strong hands-on experience with **Python 3** for scientific or engineering applications.
- Professional experience with **machine learning/deep learning and computer vision**, preferably involving feature detection, image analysis or object localisation.
- Experience working with **Earth Observation or satellite imagery**, preferably multispectral data.
- Knowledge of **Image Navigation and Registration (INR)** and **Geometric Quality Assessment (GQA)** concepts for satellite imagery.
- Experience with verification and validation activities and statistical analysis of spatial or positional data.
- Familiarity with **NetCDF** and the CF metadata convention.
- Experience with **Git-based configuration management**, preferably

Hiring organization

WGS Workgroup Solutions GmbH

Job Location

Remote work possible

Date posted

September 7, 2026

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GitLab.

- Ability to prepare clear and structured technical/scientific documentation and reports.
- Good written and spoken **English**.
- Ability to work effectively in an international and multidisciplinary team.
- Awareness of the requirements and potential risks associated with the use of **AI/ML and generative AI tools** in contractual and intellectual-property-sensitive environments.

Nice to have

- Experience with **EUMETSAT, ESA or Copernicus missions**, particularly MTG/FCI, EPS-SG/MetImage, AVHRR or Sentinel missions.
- Experience with classical feature detection or tracking methods used for geometric quality assessment.
- Experience with coastline- or landmark-based geometric validation and knowledge of related limitations such as cloud contamination and spectral or diurnal effects.
- Experience with **IBM DOORS**, Jira/Xray or other requirements and test-management tools.
- Experience with **GitLab CI/CD, Jenkins, Docker** or similar development and deployment technologies.
- Familiarity with **SysML/MBSE, Ground Segment IV&V** or satellite data-processing systems.
- Knowledge of CCSDS data formats and Earth Observation data standards.
- Familiarity with ECSS standards and/or EUMETSAT technical documentation practices.
- Experience with machine-learning model evaluation and performance monitoring.
- Experience contributing to ESA/EUMETSAT studies or tender proposals.
- Knowledge of the **EU AI Act** and AI governance or compliance requirements.

Job Benefits

- **Competitive compensation** :Attractive salary package including benefits such as sponsorships to social and sport activities, Deutschland ticket or Edenred card,first brands' employee discounts, and more.
- **Work-life balance**
- **Learning & development**
- **Strong team spirit**: A supportive and collaborative culture with team events and social activities.

Contacts

Interested applicants should submit their CV and Cover Letter in Europass format, either through the website or by emailing the WGS human resources team at **vacancies@workgroup-solutions.com**

Please submit your application before **14.09.2026**