



Talent driven
culture.

Senior AI/ML Specialist (Portugal)

Ref.^a T20266

Our client is a company focused in unlocking earth observation's full potential to understand our planet and transform it for the better. They work alongside with their partners, using their high quality imagery and analytics expertise to extract insights that help making the right decisions.

We are looking for a **Senior AI/ML Specialist** to be integrated in **Portugal**, reporting to the **Innovation Department**.

Location: Lisbon, Portugal

Work Regime: Hybrid

Accountabilities:

The Senior AI/ML Specialist will lead the design, development, validation, and operationalization of AI/ML models for satellite imagery-based Value-Added Products. Main tasks include defining modelling approaches, designing datasets and labelling strategies, training and benchmarking computer vision models, validating performance with appropriate EO metrics, analysing errors and limitations, preparing reproducible inference pipelines, generating product-ready geospatial outputs, supporting integration into operational systems, and mentoring junior technical profiles.

Core tasks:

Define the AI/ML approach for EO products:

- Select the right modelling strategy for classification, segmentation, object detection, change detection, anomaly detection, or super-resolution.
- Translate product needs into AI/ML tasks and measurable outputs.

Design and supervise datasets:

- Define class taxonomies, labelling rules, annotation strategy, train/validation/test splits, and data quality controls.
- Ensure datasets are geographically, seasonally, and sensor-wise representative.

If you meet the above requirements, please send your application via email: lgoncalves@qsr.consulting with reference to T20266_Rec_ Senior AI/ML Specialist – Space Sector.

Develop and train models:

- Build, adapt, fine-tune, and benchmark computer vision models using satellite imagery.
- Work with multispectral, VHR, Sentinel-2, or super-resolved data when relevant.

Validate model performance:

- Define appropriate metrics.
- Perform error analysis and identify model limitations.

Prepare models for operational use:

- Convert prototypes into reproducible pipelines.
- Support large-area inference, model versioning, dataset versioning, output schemas, and integration.

Generate product-ready AI outputs:

- Produce GIS-ready layers, detection outputs, change maps, confidence scores, alerts, or evidence packages depending on the use case.
- Support large-area inference, model versioning, dataset versioning, output schemas, and integration.

Support system architecture and deployment:

- Define where the model fits in the EO processing chain.

Document assumptions, limitations, and performance:

- Produce clear technical documentation on model logic, datasets, metrics, uncertainty, failure modes, and operational constraints.

Requirements & Qualifications:

- Degree in Computer Science, Data Science, Artificial Intelligence, Mathematics, Physics, Engineering, Remote Sensing, Geomatics, or a related technical/scientific discipline.
- Strong professional experience in machine learning and deep learning.
- Demonstrated experience applying AI/ML to image analysis, ideally satellite, aerial, drone or other high-resolution imagery.
- Strong Python programming skills.
- Experience developing models beyond academic notebooks.
- Understanding of remote sensing technologies, geospatial data, and Earth observation applications.

Additional Training Desirable:

- Master's or PhD in AI, Machine Learning, Computer Vision, Remote Sensing, Geospatial Data Science, or related field.
- Experience with Earth Observation, satellite imagery, geospatial AI, or remote sensing applications.
- Experience with operational AI/ML systems or MLOps.
- ISO 9001 training.

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Experience:

- At least 5 years of experience in AI/ML, computer vision, geospatial AI, remote sensing analytics, or image-based machine learning.
- Strong experience with deep learning for image analysis, including classification, segmentation, object detection, change detection, or image enhancement.
- Advanced Python programming skills and practical experience with PyTorch and/or TensorFlow.
- Experience designing datasets, labelling strategies, training/validation/test splits, augmentation pipelines, and model evaluation protocols.
- Experience with geospatial data, raster/vector formats, coordinate reference systems, and large-image processing.
- Ability to define appropriate validation metrics and assess model performance beyond global accuracy.
- Experience converting AI/ML prototypes into reproducible workflows suitable for integration into operational systems.
- Ability to document model assumptions, limitations, uncertainty, and performance constraints.
- Strong communication skills and ability to work with EO analysts, GIS experts, software engineers, and product teams.
- Experience replaces training.

Languages

- English (mandatory)
- Spanish

Offer:

- Career development opportunity.
- Wage package appropriate to the presented experience.
- Access to various benefits such as training academy, health insurance, among others.

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