



Machine Learning Engineer (Computer Vision)

1. JOB DESCRIPTION:

Cetaqua, the Water Technology Centre, is looking for a *Machine Learning Engineer* to join their Digital team in Barcelona. The Machine Learning Engineer will be responsible for implementing AI applications for environmental and water research. Main duties and responsibilities of the position include building and implementing Machine Learning and Deep Learning models, delivering software projects and defining and writing project proposals. The Engineer will also perform tasks related to Technology Scouting and will be involved in dissemination and communication activities in the context of research projects.

2. ACTIVITIES:

The Machine Learning Engineer will be mainly in charge of the design and development of Machine Learning and Deep Learning solutions, with a transversal vision from the creation of the models to their deployment in real environments. Thus, the engineer will develop tasks for the construction, training and validation of ML and DL models, as well as the implementation and deployment of such models on scalable infrastructures.

To properly address these tasks, the Machine Learning Engineer must combine a solid base in Data Science on Python environment with a high degree of knowledge as a developer. Specifically, the Machine Learning Engineer must have the following capabilities:

- Advanced knowledge (algorithmic, frameworks, pipelines) about Machine Learning and Deep Learning applied, mainly, to computer vision
- Knowledge of data structures, data models and software architectures for data processing
- Expert knowledge in mathematics, statistics, probability and algorithmics
- Development of quality code in Python
- Familiarity with Machine Learning frameworks and libraries such as Tensorflow, Keras, PyTorch, and scikit-learn.
- Familiarity with Software Engineering best practices (XDD, version control, continuous integration)

The responsibilities will materialize in the conceptualization and execution of R + D + i projects, the writing of technical reports and the dissemination of results in specialized media. Additionally, it will participate in the preparation of R + D + i project proposals, to be presented to public funding bodies and private companies.

The Software Engineer will join the Digital Team and will mainly develop his functions in the Cetaqua offices in Barcelona

3. TECHNICAL BACKGROUND:

- Studies of Computer Engineering, Telecommunications Engineering, Electronic Engineering, Mathematics, Physics or similar



- Minimum experience of 2 years
 - Valuable experience in preparing proposals and offers to carry out R + D + i projects and services
 - Ability to work in a team, results orientation, self-management and leadership capacity, order, and technical-commercial orientation to identify R + D + i opportunities.
- Fluent knowledge of of English and valuable knowledge / proficiency in French

4. SKILLS:

- Team work
- Lateral thinking and problem solving
- Result orientation
- Flexibility and adaptation to changing environments
- Business understanding

5. CONTACT

- Please send your updated CV to rafael.gimenez@cetaqua.com