

Senior Data Scientist - Computer Vision

Context

Anatomical pathology examination plays a crucial role for cancer detection, involving the analysis of tissue samples to confirm tumour presence and identify cancer types. This process enables the adaptation of treatments to suit the specific cancer detected. At Prima, we develop diagnostic support tools in collaboration with pathologists. Our artificial intelligence team creates cutting-edge computer vision algorithms to detect various pathologies and biomarkers.

Histopathological data presents significant technical challenges, and research in this field is still very active, with no predefined solutions. Here are a few examples of these challenges: How can we design and validate robust algorithms despite imprecise and incomplete annotations? How can we develop fast algorithms despite the large size of the images? How can we guarantee that the algorithms perform accurately across various medical centres? To tackle these challenges, the use of off-the-shelf solutions is therefore rarely possible. This is why we are looking for an experienced and creative individual to help our data science team design the most efficient algorithms.

By joining Prima, you will be part of a passionate and dynamic team dedicated to pushing the boundaries of technology to improve medical diagnostics. We offer a stimulating work environment where collaboration and innovation are at the heart of our culture.

Your Role as a Senior Data Scientist

As a Senior Data Scientist, your main mission will be to participate in the development, training, testing, and validation of deep learning algorithms and models aimed at assisting pathologists in their daily tasks:

- You will be involved in selecting suitable algorithms and architectures for tasks like classification, localisation, segmentation, and image registration, with an emphasis on continuous improvement.
- You will closely collaborate with our ML Engineer to deliver high-performance, quality code in production.
- You will contribute to the evolution of the MLOps methodologies implemented at Prima.
- You will continuously monitor bibliographic and technological advancements to ensure Prima remains at the forefront of innovation.
- You will play a mentoring role within the team, particularly by sharing your knowledge.

On a daily basis, you will interact with:

- Other data scientists on the team to solve technical problems.
- pathologists involved in various projects to grasp the specific challenges
- The product team to maximise value proposition.
- Developers to integrate your work into our solution.

The Perks at Prima

- We work to improve patient care... that matters.
- We work daily with pathologists.
- We have exciting technical challenges.
- We are a great, pleasant, young, and dynamic team :)
- We have excellent offices located in the heart of Paris' "Silicon Sentier".
- We offer flexible hours and remote working.
- We provide meal vouchers.

Desired Profile

Required:

- You have at least 5 years of experience in deep learning problems (preferably in computer vision).
- You are proficient with Python and PyTorch and can produce quality code.
- Your models have already been deployed in production.
- You are not afraid of open research topics and enjoy keeping up with the state of the art.
- You can communicate clearly.
- You have a broad scientific culture, and your experience in various fields allows you to be creative in your approach.
- You have a Master's degree in Applied Mathematics / Physics / Computer Science (engineering school or university).

Appreciated:

- You are familiar with MLOps (training pipeline management, model management).
- You have a PhD in Applied Mathematics or AI.
- You have experience working in a start-up.
- You have experience working in the medical field.

Interview Process

- A 10-15 minute phone interview with a member of the AI team.
- A technical test to be completed at home.
- An interview with members of the AI team: technical test debrief and discussion.
- Reference check.
- Interview with the CEO and meeting with the team.

Where to apply?

https://www.welcometothejungle.com/fr/companies/prima/jobs/senior-data-scientist-computer-vision_paris_PRIMA_Owpqo7b?q=da1a2fcd4313505527f0ea8ae588a23f&o=52f7cb29-bba4-40b2-9bda-4e451ab557e7