



DATA SCIENTIST

LOCATION	14 rue Sthrau, 75013 Paris
CONTACT	job@damae-medical.com
CONTRACT	CDI - permanent contract
STARTING DATE	ASAP

What do we do at Damae Medical?

Damae Medical is reinventing skin imaging, revolutionizing the screening, management, and follow-up of skin cancers (melanoma and carcinoma) with its deepLive™ solution, which provides an accurate, fast and reliable optical examination without performing a biopsy.

CE marked, the deepLive™ medical device is based on LC-OCT (Line-field Confocal Optical Coherence Tomography) proprietary optical imaging technology that provides 3D images of the different layers of the skin at the cellular level, complemented by several software and Artificial Intelligence (AI) modules. This innovation is protected by 6 patent families and has already been published in more than 70 scientific and medical publications.

Present in 10 countries and used in more than 30 world leading centers, deepLive™ transforms the daily practice of dermatologists making the management of skin pathologies efficient, reassuring, and non-invasive for the patient. The product is also used by leading cosmetic and pharmaceutical players for research and evaluation purposes.

Based in Paris, Damae Medical currently employs 30 people driven by innovation and continuous improvement. Winner of several innovation awards (MIT Technology Review, Bpifrance, European Commission), the company has been able to invest more than €20 million since its creation in 2014.

Welcome to a world where you can see beyond appearances!





Join us as Data Scientist!

Damae Medical offers you the opportunity to join the **Data Science Team**, to take part in the development of our AI projects. Your mission will be to develop, train and validate deep learning models with the following objectives:

1/ Develop AI-based LC-OCT data analysis software for the **segmentation** in 2D and 3D of skin structures (skin layers, keratinocytes & melanin cells, dermal fiber network or blood vessels) and the **quantification** of skin metrics (epidermis & superficial dermis thickness, DEJ morphology, cells size or distribution, collagen density, vascular organization, etc.). This software toolbox is destined to research applications addressed by the company (clinics, dermo-cosmetics or pharma).

2/ Develop AI-based skin cancers diagnostic prediction software destined to dermatologists, to help non-expert practitioners with the use and interpretation of deepLive™ exams.

You will notably work in close collaboration with:

- the **Clinical Team**, to understand medical challenges to address with AI, retrieve images databases and diagnostic labels (ground truth);
- the **Software Team**, to integrate your AI models in the software and deploy it to deepLive™ users;
- the **Marketing Team**, to interact with AI end-users and get continuous feedbacks about the solution.

On top of a team of passionate co-workers, you will benefit from:

- A close proximity with dermatologists, including immersions in clinical sites
- Many team events: after-works, restaurants, barbecues, winter/summer meetings
- Participate to various congress and events
- Ability to work remotely if needed

What will you do?

- Understand clinical objectives behind AI projects. Build a product-oriented development roadmap.
- Participate to data collection and labeling plans with clinical partners. Work on database structuration and software labeling tools to facilitate the process.
- Development and training of deep learning models. Testing and validation of models.
- Organize and participate to end-user experiments of AI software. Fine-tuning of models.
- Contribute to AI models deployment and integration in the software suite.
- Participate to AI software technical documentation to support regulatory approvals.

What profile are we looking for?

This position is for a scientific graduate (Engineer, Master, PhD) who has:

- +2 years of professional experience in data science; or at least a good track record of personal projects around machine learning (Kaggle, GitHub).
- Strong technical skills in machine learning / deep learning, image processing, computer vision.
- A perfect proficiency with Python and Pytorch.
- A previous experience in putting ML models to production.
- An experience or sensibility in medical / optical imaging will be appreciated.
- Worked in an international ecosystem, a very good level of English (oral and written) is necessary.

Apply via email with reference 22 009 to job@damae-medical.com