

## Data scientist / Machine learning specialist

[Breast cancer](#) is the most frequently diagnosed cancer and second cause of cancer death among women. In most countries all the women beginning from a certain age should pass a mammography exam to detect the cancer as early as possible. Whereas this demands a large number of radiologists to analyze all the images, a lot of countries are missing experienced breast radiologists.



1 in 8 women affected during her lifetime



Every 1000 women screened, 5 will have breast cancer.  
But 100 will be recalled for further testing.

We can do better!

[Therapixel](#) is a spin-off Inria created in 2013 specialized in medical imaging with 11 employees. We have recently won the [Digital Mammography DREAM Challenge](#) [1,2], a world-wide competition organized to improve the state-of-the-art in automatic mammography screening. We are now closing a 6M€ series A fundraise and looking for talents to join our team.

**Job description:** You will join the data science team and strengthen it with your renowned expertise in machine and deep learning. Your first challenge will be to push the limits of automatic breast cancer detection from mammography images further away. Concretely, the job consists in:

- Becoming a key member of the data science team, discussing and suggesting ideas, sharing knowledge. Reviewing / evaluating the work of the other team members;
- Prototyping and testing new ideas, analyzing and interpreting results, learning from what works and what does not;
- Staying at the cutting edge of machine learning;
- Interacting with the development team to bring research results to the market;

**Technical stack:**

- Python: the well-known tryptic numpy, scipy, scikit-learn;
- Tensorflow / keras for neural networks / deep learning;
- Git for version control

### Why working at Therapixel?

- Become part of a renowned team in machine learning; learn from the best, but teach them too – we're curious and eager to learn from you!
- Make sure your work will have a longstanding and positive impact on healthcare;
- Get the computing resources you deserve! You will be given 8 modern GPUs, only for you (!), in a top-level computing infrastructure entirely managed by Therapixel (no Amazon / MS / Google!).
- Work in a collaborative environment: we have team members dedicated to development, regulatory affairs (FDA/CE), and clinical partnerships!

### Candidate description:

- Strong experience in data science and machine learning (MS / PhD) with outstanding achievements (competitions, important scientific or open-source contributions);
- Excellent understanding of modern Deep Learning architectures (VGG, ResNet, DenseNet, GAN, transfer learning, federated learning);
- Experience with our technical stack;
- Specific interest for medical applications;
- High general scientific culture and research spirit;

### Modalities:

Contract type:	Unlimited Time Contract
Location:	Paris 14, RER station Port Royal (pépinière Paris Santé-Cochin)
Benefits :	36 days of paid holidays, sponsored cafeteria on site, health insurance
Salary :	Competitive and negotiable

### How to apply:

Please send your resume, motivation letter, and any material showing your achievements to [job-ds@therapixel.com](mailto:job-ds@therapixel.com).

*Join Therapixel – help in building the medicine of the future*

### References:

[1] DM Challenge Yaroslav Nikulin (Therapixel) write up. Available: <https://www.synapse.org/#!Synapse:syn9773040/wiki/426908>.

[2] Therapixel Press Release <https://goo.gl/BSG6rZ>