

# Research Data Science Intern

PARIS, FRANCE . LAB – INTERNSHIP

We are looking for a Data Science Intern to join Dataiku in our Paris office for a 6-month internship. At Dataiku, we edit Data Science Studio, a collaborative platform for Data Science teams. Though data teams can develop their own prediction algorithms in the studio, they often lack the internal expertise for creating complex models from image or text data.

One of the most unique characteristics of our product, Dataiku DSS, is the breadth of its scope and the fact that it caters to both data analysts (with visual analytics) and data scientists (with deep integration in code and libraries, and a web-based IDE). In this context, we believe that DSS is a perfect fit for medicine as it can facilitate cooperation between technical people and non-technical ones (doctors).

AI for health being a very trendy subject, especially since recent advances in image processing using DNN, we are looking to launch several initiatives around this subject, for example:

- **Medical Imaging.** Most recent advances in this domain focus on medical imaging. Famous architectures such as U-net and Mask R-CNN are now widely spread and we would like to leverage them in an active learning demo.
- **Time series forecasting.** Another signal processing task is getting traction: the forecasting or anomaly detection in time-series for modalities such as EEG or ECG, using methods such as ARIMA and others.

## Your mission will be to:

- Get familiar with the subject
- Build a demo around this in DSS and showcase the interest of such an approach
- Try to advertise this use case to clients in order to get feedback / get it adopted

You are our ideal candidate if:

- You are not afraid of training large networks on AWS
- You are eager to get your hands dirty and dive into coding
- You know that bagging and boosting trees is not about gardening
- You don't want to be correlated with success but actually cause it
- You know that dropout is not about leaving school at age 16.

**Ideal technical skills:**

- Good understanding of parametric machine learning algorithms and their optimisation, in particular neural networks
- Good experience with Python development ; alternatively experience with an object-oriented language such as Java or Scala
- Some experience working with deep learning frameworks, esp. Keras, for both supervised and unsupervised text/image learning.