**Artificial Intelligence
for new drug design**

About Iktos

Iktos is an applied artificial intelligence startup that helps chemistry researchers improve their molecular discovery, drug design process and synthetic planning.

Our technology leverages many advances in machine and deep learning to generate novel molecules that satisfy the end user's criteria in a fraction of the time and effort. A second area of research is related to data-driven retrosynthetic analysis and empowers organic chemists with exhaustive analyses in minutes. If you're curious about it, go have a look at our open access retrosynthetic planning tool Spaya !

To support Iktos' fast-growing team and keep pace with our high number of cutting-edge projects, we are recruiting a senior AI scientist. If you wish to join a young team, experience the startup mindset, mentor top-notch scientists while working on exciting projects, reach out to us!

Mission

As a a senior data scientist at Iktos, you will have the opportunity to participate in our research projects to contribute to the democratisation of AI in drug discovery. You will work on improving both the generative and predictive technologies embedded in our products.

You will extend state-of-the-art methods from the literature, related among others to deep generative models, latent representation learning, few shot learning, graph neural network, and have the possibility to publish and present your work in conferences. Moreover, you will be exposed to real-life scenarios while working directly on customer data and you will integrate your work in Iktos products Makya and Spaya.

You will join a young team of 8 top-notch AI scientists with an innovative mindset located in Paris and at ease with flexible remote work.

Among our current challenges, you might work on the following topics:

- Generative Models optimisation
- Off policy reinforcement learning

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- Representation Learning
- Few shot learning
- Models Interpretability
- Active Learning
- Retrosynthetic planning

Profile

We are looking for an experienced ML/Data Scientist with a computer science/ software engineering or a probability/statistics/data science background to strengthen our AI team.

Our ideal candidate should have the following skillset:

- Academic background with MSc in statistics, computer science, applied mathematics or related fields
- 3+ years of professional experience as a ML/DL engineer, or pHD in related fields
- Advanced level in Python language using a deep learning framework (tensorflow, pytorch …)
- Comfortable reading and reproducing state-of-the-art methods from the scientific literature
- Comfortable with git versioning system
- Perfectly at ease with communication/explanation of your work and results (both in French and in English)
- Past publications in scientific conferences or journals is a plus
- Knowledge in reinforcement learning is a plus
- Understanding of basic concepts in chemistry is a plus
- Knowledge in python packaging (CI, testing, …) is a plus

Details

- Start date: asap
- Location: Paris (17th district) with remote work flexibility
- Contact: nicolas.drizard@iktos.com

Please send your resume and availability for a first phone discussion by email.