



Reversing MDD & PTSD ,
Major Depressive Disorder Post-Traumatic Stress Disorder
rediscovering the joy of life

ABOUT

Machine learning researcher

Please submit your application (cover letter + CV) in English to: apply@myndblue.ai by returning the following ID for this position **2022-AI-MYND-001**

We are MyndBlue

MyndBlue is a digital Medtech that develops revolutionary predictive AI-based digital therapeutic for early detection of complication & relapse in Major Depressive Disorder and Post-traumatic-Stress-Disorder.

Our mission is to help physicians detect & predict troubles in real time for earlier intervention to be more successful in treating MDD & PTSD.

To put it simply, when you join MyndBlue, you contribute to cure more patients.

Dr Denis FOMPEYRINE (PhD in clinician psychologist, MBA), founded MyndBlue in 2016 with the aim of finding the necessary technology capable of increasing the number of cured patients, permanently avoiding unnecessary pain.

6 years later, we will publish our first results in a prestigious scientific journal. In addition, we are collaborating with academics in France and in the US in machine learning, psychiatry, medicine to insure a state-of-the-art level with the best impact possible for patients.

At MyndBlue, you will find the greatest experts working together in machine learning, data science, mathematics, engineering clinical psychiatry, medical research and regulations and engineering. This amazing team already managed to make MyndBlue a US & European leader in MDD & PTSD solution.

As we grow in 2023, we are opening a machine learning researcher position, to work with Nicolas Ricka, our head of research in machine learning.

As a **machine learning researcher**, you will be part of multidisciplinary team integrated in a network of experts in many areas (machine learning, mathematics, engineering, psychiatry) following the latest developments in machine learning and developing new machine learning methods to tackle psychiatric diseases and communicating your findings through peer-reviewed publications, scientific presentations, reports, grant applications by writing, producing graphical content, and slides.

JOB DESCRIPTION

We need you

Joining the Data Scientist team, reporting to head of research in machine learning, your mission is to:

- Collaborate in the definition of the research program at MyndBlue.
- Survey the latest developments in Machine Learning and propose new algorithms to investigate.
- Implement and improve algorithms described in research papers in signal processing, machine learning, AI in Medicine.
- Develop and improve algorithms based on our research program.
- Contribute to the validation of algorithms, and define relevant metrics to measure the model's performances.
- Be involved in the integration of algorithmic prototypes to robust, optimized production code.
- Take an active part in scientific communications (peer-reviewed publications, grant applications, reports).

PREFERRED EXPERIENCE

You have

To be considered at this position, the following skills are mandatory.

- A Ph.D. in Machine Learning, Mathematics, or another field related to our research.
- At least 2 years of experience in a machine learning position.
- Usage of git-versioning and team programming.
- Good at communicating with our inter-disciplinary team as well as researchers in the Machine Learning community or from other fields.
- Proficiency of programming in the language Python.
- Proficiency of programming Tensorflow/Pytorch/Keras.
- Knowledge of Unix environment and GPU functioning.
- Good at analyzing and summarizing complex scientific pipelines and results.
- Fluent in English & French (written & spoken)

In addition, here are some important basics to succeed:

- Knowledge of timeseries analysis, signal processing and specific machine learning algorithms adapted to time series is a plus.
- Proficiency of algorithms of machine learning and deep learning, both supervised and unsupervised would be a plus.

The bonus skills that would definitely make us pick you:

- Impact-driven & goal oriented, you are definitely resilient. Problem solver, enjoy overcoming barriers and helping the team to win.
- You want to communicate with experts from various fields in developing new science that have a maximum impact on psychiatry.

ADDITIONAL INFORMATION

Remuneration: for this job (CDI - full time), your fixed salary will be >45K€ depending on your experience. Company BSCPE.

Health Care Plan: AXA 26,5€/month

Remote: 3 days/ week possible.

Office: our research team based at Drahi X innovation Center – Ecole Polytechnique – Palaiseau.

Transport: 50% of your pass OR. Permis B is a plus.

WHY WILL YOU CHOOSE TO WORK AT MYNDBLUE?

- We are a deeptech company to really drive your daily motivation and commitment,
- Autonomy: you'll definitely get real responsibilities, and have the chance to have impact,
- Curiosity: you'll talk with world-class experts to extend your knowledge in many scientific fields,
- Work-life balance: we believe that a good work-life balance is key to both happiness and productivity,
- International: we work with the most prestigious laboratories and institutions in France and in the US,
- MyndBlue built a best-in-class solution, with no competitors

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<https://www.myndblue.ai>