AI/ML Data Scientist

The International Digital Health & AI Research Collaborative (I-DAIR)
Deadline for submissions: 23 December 2020

Background

The International Digital Health & AI Research Collaborative (I-DAIR) is a Geneva-based non-profit initiative for the inclusive, responsible and innovative use of data and digital technologies for global health. We are currently funded by some of the leading foundations in the area of health and innovation, and our partners are pursuing exciting and cutting-edge work in digital and artificial intelligence (AI) - based applications for health across the globe.

The goal of the initiative is to co-create a neutral trusted platform for enabling global research collaborations on digital health and AI for health, and for convening stakeholders to develop and share global public goods as well as solve problems for the inclusive, equitable and responsible deployment of data and AI for health. We are a small but fast-growing and highly diverse team, currently working in a hybrid format (remotely and at our HQ in Geneva, Switzerland).

A series of pathfinder projects in areas such as a global research map, real time epidemiology and dashboards, data architectures and data interoperability, bridging research and practice communities through micro-narratives, experience sharing and capacity-building, and governance for AI and data for health are currently being developed and implemented. These projects serve as a prelude to further development of the platform, which is currently incubated within the Global Health Centre (GHC) at the Graduate Institute, Geneva, and its formal launch in 2022.

I-DAIR is currently looking for an Artificial Intelligence/Machine Learning Data Scientist to support the design and development of its digital health and AI solutions. This will be a one-year fixed-term position, with possibility of renewal. The position location is flexible, though preference will be given to candidates located in one of the geographies where I-DAIR is currently developing its hubs (Switzerland, Singapore, Tunisia, Kenya, India, Estonia).

Note: I-DAIR is also currently seeking a UX/UI Engineer and a Senior Data Architect. We welcome applications for these three posts from consortiums or from private companies which are able to provide a full range of expertise across these three domain areas.

Job Description

You will work within the newly created data science team to help partners devise scalable and reproducible end-to-end machine learning solutions for Digital health. Your main focus will be research and development, combining dynamic experimentation, a passion for details and a fail-fast attitude. You will also be responsible for translating research output to production systems, in close collaboration with our partners’ software teams and other stakeholders. Finally, given your
key role within the team you will have the opportunity to mentor and inspire junior data scientists/interns. Your day to day work will include:

- Perform robust data analysis and communicate results with sophisticated visualisation methods
- Create and implement statistical & machine learning algorithms, assessing their effectiveness through solid validation workflows
- Clinical project support to guide decision making and create analytical solutions to address questions of interest to our stakeholders.
- Assisting with the publication of scientific papers and abstracts

**Experience**

You have 4+ years industry (R&D) experience in designing, prototyping, and implementing scalable and reproducible end-to-end machine learning solutions (from research to production). Candidates with an academic background and a strong record in applying machine learning to real-world datasets are equally encouraged to apply.

**Education/Qualifications**

- You have a master’s degree in a quantitative discipline (e.g. physics, computer science, mathematics, computational biology).
- You have expert knowledge of Python and are familiar with at least one deep learning framework (e.g. Tensorflow, Keras, PyTorch). You have knowledge of at least one additional scripting language (e.g. R) and bash/shell scripting. Experience with hybrid R/Python frameworks and object-oriented programming is considered a plus.
- You have demonstrated experience with building deep learning models (real-world project portfolio and/or publications).
- You have experience with processing, analyzing and modeling sensor data/time series data.
- You are familiar with cloud computing and development/test/production environments.
- You are familiar with experimental design.
- You thrive in interdisciplinary environments and have excellent cross-team communication abilities. In particular, you are able to clearly convey technical concepts at a level appropriate for technical and non-technical audiences.
- You are curious, inquisitive, collaborative, with a deep appreciation for diversity.
- You are fluent in English (full professional proficiency).
- Experience in any of these is a plus: SQL, NoSQL, Shiny, Graph database, Knowledge Graph, Tidyverse.
Personal skills and competencies

- Ability to work with a high degree of professionalism and autonomy.
- Excellent verbal and written communication skills.
- Solid organizational skills, especially the ability to meet project deadlines with a focus on details.
- Ability to successfully multitask while working independently or within a group environment.
- Ability to work in a deadline-driven environment, and handle multiple projects simultaneously.

How to apply

Applications should be submitted in English and by email only. The following set of documents is required:

- A cover letter explaining your suitability to fulfil this assignment (1-page limit)
- A personal CV/summary of the team members CV, including past experiences in similar projects
- A financial proposal in CHF or USD of either daily or monthly rate.

Complete applications should be sent to the Project Manager, Ms. Anna Brezhneva (anna.brezhneva@graduateinstitute.ch) with the subject “Application: AI/ML Data Scientist”. Please include the required attachments merged into one PDF.

**Deadline for submissions: 23/12/2020 (midnight, CET).** Please note that incomplete or late applications will not be accepted.

We are committed to diversity and especially encourage members of underrepresented communities to apply.

Due to the large number of applications, we are only able to inform the successful candidates about the outcome or status of the selection process.