



Offre n°2025-08744

Python software engineer for skrub within the projet P16

Type de contrat : Fixed-term contract

Contrat renouvelable : Oui

Niveau de diplôme exigé : PhD or equivalent

Fonction : Support functions

Corps d'accueil : Ingénieur de Recherche (IR)

Niveau d'expérience souhaité : From 3 to 5 years

Contexte et atouts du poste

Since 2018, Inria has played a crucial role as a support for the State's action in the field of artificial intelligence, in close collaboration with the National Strategy for AI. To steer this mission, Inria has created the AI Program, which is part of the Program Agency set-up entrusted by the State to Inria, and which coordinates innovative cross-functional AI initiatives: research, transfer and support for public policies.

As part of the AI acceleration strategy, and in particular in the area of “developing cutting-edge digital infrastructures, stimulating public-private partnerships and increasing the impact of AI research”, Inria has proposed the implementation of an acceleration project to support the implementation and development of an open and interoperable sovereign platform of AI software libraries for French companies, and its scaling to the European level.

This initiative is one of Inria's priorities as part of the development of its AI acceleration strategy, and with the aim of contributing to French technological sovereignty and the economic impact on French industry.

The expected impact of these measures on French industry is to enable all French companies, as well as public and institutional players, to accelerate their digital transformation using AI, without being in a captive relationship with the dominant players, thanks to the availability of a generic technological base and a set of associated transfer mechanisms.

This project, named P16, has two main components:

- A private-sector component aimed at industrializing the software in relation to the industrial and economic ecosystem, disseminating it in this world and ensuring, through the development of products and services, the economic

sustainability of the project after the initial funded phase.

- A component aimed at the academic AI community, to facilitate and accelerate the industrialization of research results for industry, and to widely disseminate P16's achievements to the academic world.

As part of its academic program, the AI Program is recruiting a skrub library development engineer for Project P16, starting on June 1, 2025.

Designed to handle complex data stored in one or more dataframes, skrub helps perform wrangling operations needed to produce a table ready for use in a machine learning model. skrub provides essential building blocks for preprocessing and feature engineering for tabular machine learning.

Principales activités

Development of skrub:

- Design, develop and maintain skrub library features using robust software development practices.
- Participate in the experimentation of state-of-the-art statistical learning algorithms on unstructured data.
- Optimize code performance and quality by exploring different implementations.
- Document library code and APIs.

Development planning and phasing

- Participate in task planning, organization of sprints, etc.
- Define delivery milestones and ensure they are met.

Collaborate with cross-functional teams:

- Collaborate with other technical teams within the P16 project to ensure seamless integration of skrub with other software components.
- Participate in coordination and planning meetings with related teams to align development goals and efforts.

Compétences

- Solid experience in Python, with excellent knowledge of libraries such as scikit-learn, pandas, numpy, matplotlib and scipy.
- Advanced skills in data manipulation and statistical analysis, with a thorough understanding of learning methods.
- Demonstrated ability to work collaboratively on research and software development.
- Strong knowledge of software engineering practices, including version control, testing and continuous integration.
- Excellent communication skills, enabling effective collaboration with internal and external teams.

Avantages

Subsidized meals

Public transport partially reimbursed

Vacations: 7 weeks' annual leave + 10 days' RTT (full-time basis) + possibility of exceptional leave (e.g. sick children, moving house)

Possibility of teleworking and flexible working hours

Professional equipment available (videoconferencing, loan of computer equipment, etc.)

Rémunération

Selon le barème statutaire de la fonction publique, les diplômes et le niveau d'expérience.

Informations générales

- **Ville :** Saclay
- **Centre Inria :** [Siège](#)
- **Date de prise de fonction souhaitée :** 2025-06-01
- **Durée de contrat :** 2 years
- **Date limite pour postuler :** 2025-07-31

Contacts

- **Équipe Inria :** ADPnum (ADPnum)
- **Recruteur :**
Kraidache Khallihanna / khallihanna.kraidache@inria.fr

A propos d'Inria

Inria est l'institut national de recherche dédié aux sciences et technologies du numérique. Il emploie 2600 personnes. Ses 215 équipes-projets agiles, en général communes avec des partenaires académiques, impliquent plus de 3900 scientifiques pour relever les défis du numérique, souvent à l'interface d'autres disciplines. L'institut fait appel à de nombreux talents dans plus d'une quarantaine de métiers différents. 900 personnels d'appui à la recherche et à l'innovation contribuent à faire émerger et grandir des projets scientifiques ou entrepreneuriaux qui impactent le monde. Inria travaille avec de nombreuses entreprises et a accompagné la création de plus de 200 start-up. L'institut s'efforce ainsi de répondre aux enjeux de la transformation numérique de la science, de la société et de l'économie.

L'essentiel pour réussir

- Engineering degree in computer science, applied mathematics, numerical methods, statistical learning or related field.
- Relevant experience in similar projects, preferably in the context of artificial intelligence and data research.

Attention: Les candidatures doivent être déposées en ligne sur le site Inria. Le traitement des candidatures adressées par d'autres canaux n'est pas garanti.

Consignes pour postuler

CV + Lettre de motivation.

Sécurité défense :

Ce poste est susceptible d'être affecté dans une zone à régime restrictif (ZRR), telle que définie dans le décret n°2011-1425 relatif à la protection du potentiel scientifique et technique de la nation (PPST). L'autorisation d'accès à une zone est délivrée par le chef d'établissement, après avis ministériel favorable, tel que défini dans l'arrêté du 03 juillet 2012, relatif à la PPST. Un avis ministériel défavorable pour un poste affecté dans une ZRR aurait pour conséquence l'annulation du recrutement.

Politique de recrutement :

Dans le cadre de sa politique diversité, tous les postes Inria sont accessibles aux personnes en situation de handicap.