Offer #2024-08012

Data Scientist Intern - image processing

Contract type: Internship
Level of qualifications required: Graduate degree or equivalent
Fonction: Internship Research

Context

iDiscover is a startup incubated by INRIA offering a SaaS service based on an innovative framework, designed to enhance human-machine communication for any application that integrates it. By integrating this framework, applications can move into the other dimension, that of applications that communicate naturally with human.

Assignment

We’re looking for talented people with a passion for using recent advancements in image processing for NLP and prompt engineering to develop a platform that help non technical user interacting with software/application using natural language.

Collaboration:
The recruited person will be in connection with the future CEO/CTO of the startup for defining the action plan.

Main activities

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- Assist in the collection, preprocessing, and analysis of large datasets related to GUI interactions and visual-linguistic pairs.
- Develop and implement machine learning models for GUI element recognition and language comprehension.
- Collaborate with the CEO/CTO to integrate visual and language models into a cohesive framework.
- Conduct experiments to evaluate model performance and optimize interaction strategies.
- Document methodologies and present findings to the team.
- Work with the project team to ensure seamless integration throughout solution development.
- Create and maintain documentation for developed tools.

Skills

Technical skills:
- Strong understanding of machine learning concepts and algorithms.
- Experience with deep learning frameworks such as TensorFlow, PyTorch, or similar.
- Proficiency in programming languages such as Python.
- Familiarity with natural language processing and computer vision techniques.
- Excellent problem-solving skills and ability to work independently and in a team environment.

Relational skills:
- Self-sufficiency

Languages:
- English (mandatory), French

Benefits package
- Subsidized meals
- Partial reimbursement of public transport costs
- Leave: 7 weeks of annual leave + 10 extra days off due to RTT (statutory reduction in working hours) + possibility of exceptional leave (sick children, moving home, etc.)
- Possibility of teleworking (after 6 months of employment) and flexible organization of working hours
- Professional equipment available (videoconferencing, loan of computer equipment, etc.)
- Social, cultural and sports events and activities
- Access to vocational training
- Social security coverage

**General Information**

- **Town/city:** Paris
- **Inria Center:** Centre Inria de Paris
- **Starting date:** 2024-09-09
- **Duration of contract:** 4 months
- **Deadline to apply:** 2024-08-19

**Contacts**

- **Inria Team:** INCUB-PRO
- **Recruiter:** Dahhani Abdelhafid / abdelhafid.dahhani@inria.fr

**About Inria**

Inria is the French national research institute dedicated to digital science and technology. It employs 2,600 people. Its 200 agile project teams, generally run jointly with academic partners, include more than 3,500 scientists and engineers working to meet the challenges of digital technology, often at the interface with other disciplines. The Institute also employs numerous talents in over forty different professions. 900 research support staff contribute to the preparation and development of scientific and entrepreneurial projects that have a worldwide impact.

**The keys to success**

**Preferred Qualifications:**

- Currently pursuing a degree in Computer Science, Data Science, Machine Learning, or a related field.
- Experience with reinforcement learning and pretrained models (e.g., GPT, Vision Transformers).
- Knowledge of GUI design and interaction principles.
- Previous experience with multimodal integration of visual and linguistic data.

**Personality or Character Traits:**

- Innovative and driven by curiosity.
- Strong problem-solving skills and an analytical mindset.
- Excellent communication skills and the ability to work collaboratively in a dynamic team environment.

**Cross-Disciplinary Knowledge and Expertise:**

- Experience working with interdisciplinary teams and integrating diverse perspectives.
- Ability to translate complex technical concepts into practical solutions.

**Warning:** you must enter your e-mail address in order to save your application to Inria. Applications must be submitted online on the Inria website. Processing of applications sent from other channels is not guaranteed.

**Instruction to apply**

**Defence Security:**

This position is likely to be situated in a restricted area (ZRR), as defined in Decree No. 2011-1425 relating to the protection of national scientific and technical potential (PPST). Authorisation to enter an area is granted by the director of the unit, following a favourable Ministerial decision, as defined in the decree of 3 July 2012 relating to the PPST. An unfavourable Ministerial decision in respect of a position situated in a ZRR would result in the cancellation of the appointment.

**Recruitment Policy:**

As part of its diversity policy, all Inria positions are accessible to people with disabilities.