Research topics	Machine Learning
Position (M/F)	Research Engineer
Reference offer	DS/PM/NETC-EN/112023
Research Department	Data Science
Publication date	15/11/2023
Start date	ASAP
Duration	Fixed Term Contract

Description

The Data Science Department at EURECOM, Sophia-Antipolis France, invites applications for a Research Engineer position. The candidate will work in the machine learning theory group of the department, which aims at developing theoretically sound, novel methodologies as well as algorithmic implementations of such methods, to complement theory with appropriate experimental protocols.

We are looking for fresh, ambitious and hard-working software engineers with a clear passion for turning abstract ideas in the field of machine learning into fully-functional prototypes and demonstrators, using cutting edge machine learning libraries, and computational systems.

Our work in the group unfolds according to a variety of application domains, which support our theoretical approach to the design of novel machine learning algorithms. Our application domains stem from collaborations with industry as well as National and European collaborative projects, and include:

- Anomaly detection for time-series data collected from computer systems
- Computer vision in the context of autonomous vehicles
- Semantic communication for next-generation wireless systems
- Wireless sensing

The successful candidate will work in close relation with professors, postdoctoral researchers and Ph.D. candidates, and will participate to: (i) empirical validation of new machine learning methods, including the collection of data and its pre-processing, the development of algorithms using modern libraries, and the execution of experiments on both local and remote GPU-clusters, (ii) design and maintenance of open-source projects related to our research activities, including appropriate documentation for scientific reproducibility, and for user adoption, (iii) communication to a public of developers, engineers and practitioners through technical blogs, online demonstrators (e.g. HuggingFace spaces) of research results.

Since our activities are fueled by industrial and public funds, the successful candidate will also participate to project meetings and reviews, as well as public demonstrations of research results.

Requirements
- Education Level / Degree: Ms.c. or Ph.D. degree in Computer Science, Applied Mathematics, Physics, or a closely related area with a strong background on algorithmic development and software engineering
- Applicants should have a good background on machine learning, a taste for learning new topics related to machine learning research, as well as proven experience in the design of solid experimental protocols
- Applicants should have strong communication skills, with target audiences ranging from the scientific and academic community, as well as engineers and product managers.
- The working language in the group is English

Application

The application must include:
- Detailed curriculum, including (if available) a list of software engineering projects, public demonstrators, and contributions to open-source projects
- a cover letter describing the applicant's interests
- the contact details of 2/3 persons that can provide references about the candidate
- the transcripts of courses taken at graduate level if the candidate does not have a Ph.D.

Applications should be submitted by e-mail to Pietro.Michiardi@eurecom.fr with the reference:
DS/PM/NETC-EN/112023
Applications will be accepted until the position is filled.

About EURECOM

EURECOM is a major Engineering School and a Research Center in digital sciences founded in 1991 as a consortium in the international technology park of Sophia Antipolis. The IMT is a founding member of the GIE. Teaching and research activities are organized around 3 promising fields: digital security, communication systems and Data Science.

EURECOM has a staff of 150 (researchers and support teams) and welcomes 400 international students on the Campus Sophia Tech, the largest information science and technology campus of the region. EURECOM enjoys a privileged geographical environment on the French Riviera (Côte d'Azur), between sea and mountains, at the heart of a dynamic and multidisciplinary ecosystem that promotes high-level scientific and technological innovation.

Social advantages

- Attractive salary - Corporate saving plans
- Private retirement plan (employer participation of 100%)
- Employee profit sharing policy
- Company health insurance (mutuelle) with high levels of guarantees for the whole family (employer participation of 60%)
- Restaurant vouchers : value 10,50 euros (employer contribution of 60%)

EURECOM has a dynamic policy in terms of inclusion and quality of life at work, committed to diversity and gives the same consideration to all applications, without discrimination.

EURECOM has a "Mission Handicap" policy. All our positions are open to people with disabilities. A designated disability referent welcomes and provide support to employees and students suffering from a disability. He puts in place the necessary arrangements and makes positive commitments in favour of a personalized integration.

EURECOM, as part of its Annual Gender Equality Plan, practices inclusive recruitment without any kind of gender discrimination. The conditions of employment are identical for women and men. In order to promote the diversity in its teams, EURECOM encourages male applications for administrative positions, traditionally occupied by women, and female applications for teaching/research positions, traditionally occupied by men.

EURECOM carries out positive actions within the framework of its CSR policy. A CSR referent steers EURECOM's policy in terms of CSR and energy transition (electric charging stations, solar panels, selective sorting, etc.).

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