basque center for applied mathematics

EXCELENCIA SEVERO OCHOA

IC2024_09_04 BCAM International Call

Research Technician - Machine Learning

Job Offer	
Topics:	**The Basque Center for Applied Mathematics - BCAM, is looking for a Research Technician position in Machine Learning, join the Machine Learning (ML) group, and work under the supervision of Dr. Novi Quadrianto.** We are offering a unique opportunity for a motivated individual to join the Basque Center for Applied Mathematics (BCAM) as a Research Technician. You will join a team of machine learning researchers developing and utilising statistical matching techniques for mitigating and auditing bias in Artificial Intelligence (AI) models. You will take a substantive role in developing a tool which can be easily integrated into any AI workflow, in a plug and play fashion, to continuously monitor and improve its fairness. A key aspect of the tool is the ability to operate with different types of data (tabular, images, and text) in a variety of contexts (binary and multiclass classification and regression). It is also able to match datasets in different domains including out-of-distribution data even if these datasets have different numbers of variables or features. The initial contract duration will be 1 year, with ample possibilities for extension, if the evaluation is positive. Our hope is to later on incorporate the research technician within BCAM's doctoral programme, subject to satisfactory performance. If you are a graduate and a passionate about Artificial Intelligence, and eager to embark on a research career at BCAM, this opportunity is for you. Apply now and become part of our dedicated team at BCAM.
PI in charge:	Novi Quadrianto.
Salary and conditions:	**The gross annual salary of the position will be 19.764€-29.994€**

	It will then be on your own responsibility to make your yearly income declaration at the Bizkaia Treasury Agency. Additionally, we offer a moving allowance up to 1.000€. Should the researcher have a family at the time of recruitment: 1. 1.000€ gross in a single payment will be offered (you must be married-official register or with children and the certificate to prove it must be sent). 2. 600€ gross per year/per child (up to 2 children) will be offered (the certificate to prove it must be sent). *Free access to the Public Health System in Spain is provided to all employees.*
Nº Positions offered:	**1**
Contract and offer:	**1 year**
Deadline:	**October 10th, 2024, 14:00 CET (UTC+1)**
How to apply:	Applications must be submitted on-line at: https://joboffers.bcamath.org

Scientific Profile Requested	
Requirements:	• Applicants must have their bachelor's degree in computer science.
Skills and track-record:	Although the requirements can be adapted to the different candidate profiles, a strong candidate needs to possess the following skills: • Demonstrated machine learning ML expertise, in researching, training, deploying, and optimising ML techniques, desirably, this includes large language models LLMs. • The ability to work independently, with a high degree of self-motivation, including the organisational skills to manage projects. • Fluency in spoken and written English.
Scientific Profile:	The preferred candidate will have: • Strong programming skills, with proficiency in Rust, Python, PyTorch. • Experience using software engineering tools and processes including version control, agile tooling

	(e.g. Jira, GitHub Projects), code reviews and pull requests. • Knowledge in algorithmic bias and fairness is desired.

Application and Selection Process	
Formal Requirements:	The selected candidate must have applied before the application deadline online at the webpage: https://joboffers.bcamath.org The candidates that do not fulfil the mandatory requirements will not be evaluated with respect to their scientific profile.
Application:	Required documents: • CV • Letter of interest in English describing which topics the candidate is interested in researching. • 2 recommendation letters • Academic record: including undergraduate and master-level courses attended and grades and scientific results achieved, and research statement is NOT required (leave blank in application form).
Evaluation:	Based on the provided application documents of each candidate, the evaluation committee will evaluate qualitatively: the adaption of the previous training and career to the profile offered, the recommendation letters, the main results achieved (papers, proceedings, etc.), the statement of past and proposed future research and other merits; taking in account the alignment of these items to the topic offered.

Incorporation:	**As soon as possible**

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