Job Reference

557_23_CASE_DPPP_R2/RE2

Position

Data Scientist (R2/RE2)

Data de tancament

Diumenge, 31 Desembre, 2023
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Job title: Data Scientist (R2/RE2)

About BSC

The Barcelona Supercomputing Center - Centro Nacional de Supercomputación (BSC-CNS) is the leading supercomputing center in Spain. It houses MareNostrum, one of the most powerful supercomputers in Europe, was a founding and hosting member of the former European HPC infrastructure PRACE (Partnership for Advanced Computing in Europe), and is now hosting entity for EuroHPC JU, the Joint Undertaking that leads large-scale investments and HPC provision in Europe. The mission of BSC is to research, develop and manage information technologies in order to facilitate scientific progress. BSC combines HPC service provision and R&D into both computer and computational science (life, earth and engineering sciences) under one roof, and currently has over 900 staff from 55 countries.

Look at the BSC experience:
BSC-CNS YouTube Channel
Let's stay connected with BSC Folks!

We are particularly interested for this role in the strengths and lived experiences of women and underrepresented groups to help us avoid perpetuating biases and oversights in science and IT research.

Context And Mission

The Computational Applications in Science and Engineering department (CASE) works with industry and academia developing software and applications that leverage the power of High-Performance Computing to solve real problems.

One particular line of research is data science, AI, and machine learning applied to industrial processes and systems, which resides in the Data Analytics and Visualization Group. The goal of this line of research is to
develop tools and techniques to help industry in tasks such as anomaly prediction, energy and resource optimization, and efficient operation of complex systems.

The role of this position will be to prepare and analyse data from user/product relations, and then creating models and profiles that characterise the users as well as the products, focused on feeding and creating large scale recommender system.

The position will also help in cleaning and preparing data, and collaborate with data engineers to set up and deploy the models in production pipelines.

**Key Duties**

- Work to receive, ingest, prepare, and clean data from the project stakeholders
- Develop and implement recommender systems, training them in HPC facilities
- Help prepare the tuned models for external use in production, either in cloud or workstation infrastructures
- Validate and measure the performance of the models developed, against others the selected baselines.
- Research and implement novel recommender architectures incorporating AI components

**Requirements**

- **Education**
  - BS or PhD on Data Science, Applied Mathematics, or Computer Science

- **Essential Knowledge and Professional Experience**
  - Experience with data science methods applied to industry
  - Experience on applied data science projects
  - Ample experience on popular languages for data scientists (Preferably Python)
  - Experience on machine learning best practices
  - Strong initiative to carry on a multidisciplinary research project involving talking to people on many different fields
  - Experience with putting ML models in virtualised containers or MLops systems
  - General knowledge of and experience on distributed and parallel computing, cloud, and big data infrastructures

- **Additional Knowledge and Professional Experience**
  - Knowledge of streaming architectures
  - Experience with real world data science problems
  - Setting up machine learning projects in production

- **Competences**
  - Fluency in spoken and written English and Spanish, while fluency in other European languages will be also valued
  - Excellent communication skills, specially at the level of producing internal documentation (manuals, white papers) for reuse and reproducibility of results
Conditions

- The position will be located at BSC within the CASE Department
- We offer a full-time contract (37.5h/week), a good working environment, a highly stimulating environment with state-of-the-art infrastructure, flexible working hours, extensive training plan, restaurant tickets, private health insurance, support to the relocation procedures
- Duration: Open-ended contract due to technical and scientific activities linked to the project and budget duration
- Holidays: 23 paid vacation days plus 24th and 31st of December per our collective agreement
- Salary: we offer a competitive salary commensurate with the qualifications and experience of the candidate and according to the cost of living in Barcelona
- Starting date: asap

Applications procedure and process

All applications must be made through BSC website and contain:

- A full CV in English including contact details
- A Cover Letter with a statement of interest in English, including two contacts for further references - Applications without this document will not be considered

In accordance with the OTM-R principles, a gender-balanced recruitment panel is formed for every vacancy at the beginning of the process. After reviewing the content of the applications, the panel will start the interviews, with at least one technical and one administrative interview. A profile questionnaire as well as a technical exercise may be required during the process.

The panel will make a final decision and all candidates who had contacts with them will receive a feedback with details on the acceptance or rejection of their profile.

At BSC we are seeking continuous improvement in our recruitment processes, for any suggestions or feedback/complaints about our Recruitment Processes, please contact recruitment [at] bsc [dot] es.

For more information follow [this link](#)

Deadline

The vacancy will remain open until a suitable candidate has been hired. Applications will be regularly reviewed and potential candidates will be contacted.

OTM-R principles for selection processes

BSC-CNS is committed to the principles of the Code of Conduct for the Recruitment of Researchers of the European Commission and the Open, Transparent and Merit-based Recruitment principles (OTM-R). This is applied for any potential candidate in all our processes, for example by creating gender-balanced recruitment panels and recognizing career breaks etc.

BSC-CNS is an equal opportunity employer committed to diversity and inclusion. We are pleased to consider all qualified applicants for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age, disability or any other basis protected by applicable state or local law.

For more information follow [this link](#)
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