Job Reference

274_22_LS_TM_RE2

Position

Research Engineer - Text Mining (RE2)

Data de tancament

Dilluns, 31 Octubre, 2022
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Job title: Research Engineer - Text Mining (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, and is a hosting member of the PRACE European distributed supercomputing infrastructure. 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 770 staff from 55 countries.

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

Context And Mission

The Text Mining Unit of the BSC-CNS (TeMU-BSC) is funded through the Plan de Impulso de las Tecnologías del Lenguaje de la Agenda Digital, by the Secretary of State of Telecommunications and the Information. It is the first publicly-funded text mining unit in Spain and has the aim to promote the development of natural language processing and machine translation resources for Spanish and other co-official languages in the area of biomedicine.

We search for a technical researcher in bioinformatics, medical informatics, natural language processing, computational linguistics or language engineering with a strong background in Machine Learning (ML), who will be responsible for the integration of data and the implementation of search tools into the platform
for natural language processing designed by the unit.

**Key Duties**

- Design, implementation, and evaluation of text mining, NLP, deep learning and ML tools and models applied to the clinical and biomedical application domain.
- Coordination and organization of shared tasks and evaluation campaigns (like IberLEF, CLEF eHealth...).
- Technical coordination and supervision of Gold Standard annotation projects to generate high-quality text corpora.

**Requirements**

**Education**

- University degree in computer science, mathematics, statistics, data scientist, physics, bioinformatics, telecommunications, electrical engineering or equivalent.

**Essential Knowledge and Professional Experience**

- Experience with Deep Learning and statistical data mining frameworks: Keras, Tensorflow, PySpark, PyTorch, Spacy, etc.
- Experience with ML algorithms and techniques: LDA, Topic Modelling, LSTM, KNN, SVM, Decision Trees, Clustering, Word Embeddings, etc.
- Experience in the development or management of software resources/tools, Github + Github projects.
- Experience with NLP components and platforms.

**Additional Knowledge and Professional Experience**

- Strong programming skills in at least one of the following languages: Java, Python, C++, Scala, R.
- Experience and skills related to bash, Docker, Kubernetes, Unity testing, Collab

**Competences**

- Good communication and presentation skills.
- Strong technical writing skills.
- Ability to work both independently and within a team.
- Used to work under pressure under strict deadlines

**Conditions**

- The position will be located at BSC within the Life Sciences Department
- We offer a full-time contract, a good working environment, a highly stimulating environment with state-of-the-art infrastructure, flexible working hours, extensive training plan, tickets restaurant, private health insurance, fully support to the relocation procedures
- Duration: Indefinite
- 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: October 2022
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 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

This position is reserved for candidates who meet the requirements and have the legal status of disabled persons with a degree of disability equal to or greater than 33%. In case there are no applicants with disabilities that meet the requirements, the rest of the candidates without declared disability will be evaluated.