113_LS_CB_RE2

Job Reference

113_LS_CB_RE2

Position

Machine Learning Technician (RE2)

Data de tancament

Dilluns, 30 Juliol, 2018

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 500 staff from 44 countries.

Look at the BSC experience:
BSC-CNS YouTube Channel
BSC-CNS Corporate Video
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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 of the integration of data and the implementation of search tools into the platform for natural language processing designed by the unit.

**Key Duties**

1. Design and implementation of deep learning and ML tools and models and their integration into a natural language processing framework.
2. Integration of textual data with structured and semi structured data (e.g. clinical and genomics data).

**Requirements**

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

**Essential Knowledge and Professional Experience**

- Working experience in the implementation and/or usage of workflow management systems.
- Experience with Deep Learning and statistical data mining frameworks: Keras, Tensorflow, PyTorch, 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.

**Additional Knowledge and Professional Experience**

- Strong programming skills in at least one of the following languages: Java, Python, C++, Scala, R.
- Development and integration of software tools.
- Demonstrable use of source code repositories (e.g. Github, BitBucket, Sourceforge).
- Experience with software tools such as Galaxy, GATE, UIMA, NLTK, cTakes.
- Experience in with cloud computing, docker, docker swarms and VMs.
- Skills and knowledge related to data Warehouses, NoSQL (e.g. MongoDB, Elasticsearch), SQL (e.g. PostGreSQL, MySQL, Oracle, MS-SQL).
- Familiarity with some language processing platform (e.g. OpenNLP, FreeLing, IXA pipes) will be a plus.
- Familiarity with software like Maven and Nexus or setuptools, Virtualenv, PIP will be a plus.

**Languages**

- Fluency in English and Spanish.
Conditions

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

All applications must include:

- A motivation letter with a statement of interest, including two contacts for further references - COMPULSORY - Applications without this document will not be considered
- A full CV including contact details

Deadline

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

Diversity and Equal Opportunity Employment

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.

Barcelona Supercomputing Center - Centro Nacional de Supercomputación