



OLLSCOIL NA GAILLIMHE
UNIVERSITY OF GALWAY



HR EXCELLENCE IN RESEARCH

Research Assistant - Deep Learning for language pattern detection

Data Science Institute, University of Galway

Applications are invited from suitably qualified candidates for a full-time, fixed term position as a Research Assistant with the Unit for Natural Language Processing (NLP) at the Data Science Institute, University of Galway.

Project Background: This position, a fixed period of 6 months, is available in the context of the Insight SFI Research Centre for Data Analytics from November 1st 2022 (or as soon as possible). The post is available in the context of a commercialisation project on language pattern detection for mental health issues.

Qualifications: The successful candidate will have a MSc in Artificial Intelligence or similar with a specialisation in NLP tasks in deep learning settings.

Job Description:

Main responsibilities for the research assistant position include (but are not limited to):

- Developing classification methods, e.i., multiclass, multilabel, multiclass-multioutput, for language pattern detection in deep learning settings.
- Refactoring and improving data for evaluation purposes
- Assisting in natural language processing (NLP) tasks for understanding language pattern detection and classification models for applications in NLP.
- Performing a variety of independent tasks and team activities involved in the collection, analysis, documentation and interpretation of information/results.
- Presenting information on research progress and outcomes to others responsible for the research project. The Research Assistant will make use of standard research techniques and methods.
- Conducting literature and database searches and interpreting and presenting the findings of the literature searches as appropriate.
- Assist in writing up results from research activities (e.g. as project report) for review by PI, including preparing technical reports, conclusions and recommendations.
- Provide input into the research project's dissemination, in whatever form (report, papers, chapters, book) as directed by the PI/project leader.

Qualifications/Skills required:

Candidates for this position should have an MSc or equivalent in a relevant field of study with an emphasis on areas such as machine learning and/or natural language processing. The candidate should have good programming skills in python (preferably experience with pytorch). The position is for a fixed period of 6 months with the possibility of extension, depending on the successful acquisition of project funding.



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Essential Requirements:

- MSc in Natural Language Processing or Computer Science
- Relevant experience with natural language processing, machine and deep learning
- Experience in classification task, including multiclass, multilabel, multiclass-multioutput classification
- Understanding of experimental design and scientific methodologies
- Excellent programming skills in Python
- Programming experience with deep learning (e.g. pytorch, transformers)

Desirable Requirements:

- Experience in data processing in health domain
- Evidence of previously completed software projects, e.g. in github

Employment permit restrictions apply for this category of the post.

Salary: €27,380 – €36,786 per annum, (commensurate with qualifications and experience)

Continuing Professional Development/Training:

Further information on research and working at the University of Galway is available on <https://www.universityofgalway.ie/our-research/>. Researchers are encouraged to avail of a range of training and development opportunities designed to support their personal career development plans. University of Galway provides continuing professional development support for all researchers seeking to build their own career pathways either within or beyond academia. Researchers are encouraged to engage with our Researcher Development Centre (RDC) upon commencing employment - see <https://www.universityofgalway.ie/rdc/> for further information.

For information on moving to Ireland please see www.euraxess.ie

To Apply: Applications, including a cover letter and CV in PDF and the contact details of three referees should be sent to Dr Mihael Arcan (mihael.arcan@insight-centre.org)

Closing date for receipt of applications is 5.00 pm 14th October 2022

Due to the University closure related to COVID-19, interviews will take place virtually

We reserve the right to re-advertise or extend the closing date for this post.

University of Galway is an equal opportunities employer.

All positions are recruited in line with Open, Transparent, Merit (OTM) and Competency based recruitment