Research Centre: Insight Centre for Data Analytics
Post Title: Postdoctoral Researcher – Level 1
Post Duration: Fixed Term Contract up to 18 months

As part of this role the researcher will be required to participate in the DCU Research Career Framework. This framework is designed to provide significant professional development opportunities to Researchers and offer the best opportunities in terms of a wider career path. The role may include teaching duties to assist with module delivery.

Background
Dublin City University (www.dcu.ie) is a research intensive, globally engaged, dynamic institution which has developed its own research specialists, established internationally recognized centres of excellence that have substantive collaborative links with leading universities and industrial partners. DCU is distinguished both by the quality and impact of its graduates and by its focus on the translation of knowledge into societal and economic benefit. Through its mission to transform lives and societies through education, research and innovation DCU acts as an agent of social, cultural and economic progress. DCU is Ireland’s fastest growing university and now hosts more than 17,000 students across its three academic campuses: DCU Glasnevin Campus, DCU St Patrick’s Campus and CU All hallows campus. DCU has a strong track record in attracting both Irish and European Union research funding under Horizon 2020 (and all previous Framework Programmes), Marie Curie Actions and Erasmus. We offer a dynamic and internationally-focused environment in which to advance your academic career.

The Insight Centre for Data Analytics (http://www.Insight-centre.org) is an SFI funded Research Centre which brings together researchers from University College Dublin, NUI Galway, University College Cork, and Dublin City University, as well as other partner institutions, Trinity College Dublin (TCD), University of Limerick (UL), National University of Ireland, Maynooth University (MU) and Tyndall National Institute. It creates a critical mass of more than 400 researchers from Ireland’s leading ICT clusters to carry out research on a new generation of data analytics technologies in a number of key application domain areas, such as Health and Human Performance, Smart Communities, Internet of Things, Enterprise and Services and Sustainability and Operations.

The €150m Centre is funded by Science Foundation Ireland and a wide range of industry and European Union partners. Insight’s research focus encompasses a broad range of data analytics technologies from machine learning, decision analytics and social network analysis to linked data, recommender systems and the sensor web. Together, with more than 220 partner companies, Insight researchers are solving critical challenges in the areas of Connected Health and the Discovery Economy.

The Project
The Insight Centre is now recruiting for a Senior Data Scientist position to join the FinAccAI team working on industry research & development projects funded by Enterprise Ireland through
Principal Duties and Responsibilities
Reporting to his/her Principal Investigator(s) the Postdoctoral Researcher will:

- Conduct a programme of research in the broad field of data warehousing with a particular emphasis on probabilistic database approaches and graphical data models to be applied in the agri sector. Additionally, the candidate should have experience in data cleaning and pre-processing techniques.
- Provide assistance and advice to PhD students working on similar topics.
- Assist the Principal Investigators (PIs) in overseeing software and system development for various projects.
- Contribute to the design and implementation of the project’s prototype demonstrators.
- Produce top quality journal and conference publications, in partnership with the PIs.
- Participate in Insight Centre activities, including industry showcases, annual reviews and industry and agency visits to the Insight labs.
- Assist with presentation and documentation of demonstrator systems for industry sponsors.
- Other tasks relevant to successfully implementing the assigned research programme.
- Carry out administrative work associated with the programme of research as necessary.

Qualifications, Skills and Experience Required:
Applicants must have a PhD in Computer Science, Engineering or a related discipline with strong software and programming skills and relevant experience in computer vision, deep learning, or collective filtering.

In addition, candidates will ideally have:

- Knowledge of one or more of: Java, C++, PHP, node.js, Objective-C, C.
- Knowledge of scripting languages: Python, Bash, Perl, JavaScript, d3.js.
- Experience working with UNIX, Linux, VMWare, OSX or Windows operating systems.
- Database management skills: MySQL, MongoDB, SQL, Neo4j, NoSQL.
- Experience of building database management systems for both structured and non-structured data.
- Experience of modern techniques and implementations in data pre-processing, or data preparation.

Skills
- Excellent written and oral proficiency in English (essential)
- Excellent written and verbal communication and social skills.
- Proven ability to prioritize workload and work to strict deadlines.
- Ability to work in a team and to take responsibility to contribute to the overall success of the team.
- Strong problem solving abilities.
Mandatory Training
The post holder will be required to undertake the following mandatory compliance training: Orientation, Health and Safety and Intellectual Property and Data Protection training. Other training may need to be undertaken when required.