



Company / Organisation Name:	Idealista
Team / Department:	
Address:	

Provisional title for project:

Improving housing submarket spatial segmentation

Short description of the problem that would be addressed by the project:

The main goal of the project is to automatically identify similar geographical areas in terms of real estate market behaviour, socio-demographic and quantitative metrics of urban morphology. For this purpose, unsupervised algorithms are expected to be used in order to identify similar areas at scale

Relevant parameters should be obtained from open data public repositories but also as a result of the processing of spatial information regarding to the type of the building and plot structure (urban tissues). The final segmentation might be based on either the road-center line geometries or an already existing discrete global grid system

Short description of the data sources that would be used in the project, and how they would be used

Geodemographic official datasets, administrative boundaries at different scales and cadastral cartography. Housing prices indices can be provided by the company depending on the chosen project country area

Would any work by the student need to be carried out on site at the Company with the exception of supervisory meetings?

All work at present is remote

Any issues of data confidentiality and IPR that would need to be resolved

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Essential skills

The ability to code, experience with unsupervised algorithms, knowledge of data science techniques

Desirable skills

Elements of urban typomorphology

Preferred degree programmes (if any)

Geography/GIS, Computer/Data Science, Urban Analytics

Preferred selection method

Online interview

Support and training offered by the company

1 hour every 2 weeks, plus any ad-hoc support as necessary

Financial assistance offered by the company

The organisation will pay the honorarium (£500)

Any other comments

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For details on how to apply, please visit:

www.cdrc.ac.uk/education-and-training/masters-dissertation-scheme