Project description AI master thesis

Question	Value
Project name	Computer Vision for Public Space and Asset Management
Description	Detecting problems with bike paths, broken benches, dangerous trees, or any other places or assets in the public spaces that might need attention or maintenance - these are only few examples in which Computer Vision techniques could prove useful at the Municipality of Amsterdam. You could think of combining any of the available datasets of the City of Amsterdam (look at https://data.amsterdam.nl/ and https://api.data.amsterdam.nl/api/), or even exploit an existing scientific dataset to solve an interesting research problem. Last year, for example, two students from the University of Amsterdam worked on active deep learning for object detection and image-level supervised semantic segmentation in order to reduce the annotation efforts related to detecting garbage and other objects in street scenes. This project provides a great freedom in choosing your own topic, which makes it ideal for highly ambitious AI students with amazing ideas, but it also requires a lot of initiative and a deep understanding of the needs and issues of the people of Amsterdam.
Work environment	Depending on the specific topic, the student might be part of a department of domain experts. Once a week, all students gather at Datalab for more in-depth technical support. What we offer: ● Freedom and responsibility ● Working in a team of experienced people ● Successful outcomes are likely to be implemented ● A monthly internship compensation ● Working with academically interesting real world data
Expectations	The results of this project should be directly applicable and relevant to the municipality. In addition to the delivery of useful predictive models, relevant results also include byproducts of the whole data analysis/processing pipeline that could be turned into insightful reports. Supervision will be shared between the academic institution (UvA/VU/…) and data scientists/analysts at the City of Amsterdam.
Duration	6-9 months
Programmes	Master AI (6/9 months);
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