Project name	Image Recognition for Sidewalk Accessibility Assessment
Description	People with disabilities frequently have trouble with crossings because they are too long, or don't have a curb ramp, or don't have an audible beacon, or the press buttons are too high, between others. This doesn't allow them to proceed with their daily activities the same way people without disabilities do. By automatically processing data, such as geo data, aerial photos, panoramic data, or maybe even lidar data, it will be possible to recognize many of the sidewalk characteristics and compare it with the existing required accessibility guidelines. In this way, we can help city officials to identify unaccessible crossings in the city and to make informed decisions, such as, for example, redesigning some locations. Furthermore, this project could be a first step into offering an optimized version of route planning applications, where citizens with disabilities can have more personalized route planning, avoiding inaccessible crossings. For this project, we have multiple possible data sources. Aerial and panoramic images, as well as lidar data can be used to detect the sidewalks. Furthermore, a dataset with the walk and bike network of Amsterdam contains all crossings, including the ones with or without zebra lining. Finally, you would be able to make use of existing research into detecting trajectory markings from images and crossroads from aerial photos, and own our experience from our previous detection and segmentation projects for the streets of Amsterdam. This project is part of our Amsterdam for All project which aims at measuring city accessibility, and offering the appropriate data and analysis to city officials, so they can base their decisions on tangible evidence and ultimately, enable life for everyone in the city. On a daily basis, you will be working closely with two data scientists, as well as our UX/UI designer. The members of the AI Team, which have a lot of experience analysing visual and lidar data, will also be there for sharing their knowledge and brainstorming with you.
Work environment	Within the City of Amsterdam, you will work with experts from the Chief technology office, and more specifically the dedicated AI Team . More AI specialists and engineers will be available for occasional brainstorming sessions and workshops. Once a week all AI & Data Science students gather for more in-depth technical support. What we offer: ● Freedom and responsibility ● Working in a team of experienced people ● Successful outcomes are directly implemented

Overzicht van opmerkingen bij [AI_DS] Image Recognition for Sidewalk Accessibility Assessment.pdf

Pagina: 1

Nummer: 1 Auteur: [redacted] Datum: 27-8-2021 9:26:00 +02'00'
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Nummer: 2 Auteur: [redacted] Datum: 27-8-2021 9:28:00 +02'00'
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Nummer: 3 Auteur: [redacted] Datum: 30-8-2021 7:14:00 +02'00'
No link but have the thesis from [redacted] (Rotterdam/UvA MBA)

Nummer: 4 Auteur: [redacted] Datum: 31-8-2021 7:38:00 +02'00'
can we see? Who's that? What's that?

	● A possibility to contribute to (your own?) smart city development • A monthly internship compensation What we expect: • An independent work ethic • Machine learning knowledge • A keen interest in working with point cloud data • [redacted] programming skills • And most importantly: a passion for their field, an ambition to learn, and a drive to make Amsterdam even more beautiful, safe and sustainable!
Expectations	The most important thing is to be eager to explore and learn together and step out of the comfort zone. The aim to achieve results directly applicable and relevant to the municipality. (i.e. not merely an academic paper). 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.

Deze pagina bevat geen opmerkingen.