



FruitPunch AI

The global AI for Good community

FruitPunch AI is a global AI for good community. We therefore have a mission of seeking out opportunities that AI can be used for good. We're going to take a look at some of the initiatives that FruitPunch is already involved in and then identify an opportunity in our South African context that could benefit from AI.

AI for Trees

FruitPunch is involved in an initiative that aims to use drone and satellite imagery to monitor tree growth in reforestation efforts in Tanzania and the surrounding region. We have partnered with JustDiggIt, a company that is involved with the physical reforestation effort and will provide them with key data into which areas need more attention and which areas are thriving. The challenge is to design a system that will be used to track the growth of new trees and estimate tree count and tree cover.

<https://app.fruitpunch.ai/activity/f404fad1-9a43-4257-91bd-b1c1659cd45d#description>

AI against Oil Spills

Oil spills still happen frequently within our oceans, rivers and ports. These spills have devastating effects on the environment and need to be addressed as quickly as possible. While prevention of the spill would be the most ideal case, we can also take steps to mitigate the damage that the spill would cause. Using satellite and drone images, FruitPunch is working with Rijkswaterstaat in the Netherlands to develop detection tools for oil spills on smaller scale. The sooner a spill can be identified, the quicker a team can be dispatched to begin clean-up. This will also be able to provide more details about the nature of the accident, so that the disaster team knows what size of spill they're dealing with.

<https://app.fruitpunch.ai/activity/6d0a1e60-6225-468a-ab8c-aa349f4ed03a#description>

Challenge:

After having read these case studies, your task is to provide a brief overview of an opportunity for a challenge that you may know of within a South African context. You do not need to go in depth about the extent of the problem and solution but provide enough information that it is clear what the problem is and how a solution may be possible. Submit your answer on the following Google form:

<https://forms.gle/vtE6ZXcrErZb5GnNA>