**Master II
Intelligence
Artificielle et
Robotique**
2021 / 2022

SCIAIR
Sugar Cane Industry - Artificial Intelligence and Robotics

Github and Kaggle Links

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1. **Sugarcane leaves and weeds dataset**

https://colab.research.google.com/drive/1ESxLZp9xnuLi1ec98aMxEY6Jc8r6VSXd#scrollTo=wWOok8a
brCsL

2. **Weed detection using YOLOv7**

https://github.com/ddomah/SCIAIR/blob/86b8528e870bd1123aef88c77ddaeafeacf5d1d3/Cane_vs_Weed_
Detection_Aug_2022.ipynb

3. **Feature detection using OpenCV – ORB**

https://github.com/ddomah/SCIAIR/blob/d6d1f2dde711a927aa856c8a66814c41020e939c/FeatureDetec_
OpenCV_ORB.py

4. **Weed detection using CNN**

https://github.com/ddomah/SCIAIR/blob/fe9a525b6162c0746530d6b02a5fa371e98a617d/sugar_weed_
CNN.py

5. **Weed detection using Vision Transformer**

https://github.com/ddomah/SCIAIR/blob/d78b521195e5d044dfa568515788481d7a82f5a7/Sugarcane_
Weed_ViT_1