

Team Copy Waste

Scrum 1

Sept.10, 2021 - Sept. 24, 2021

 IN PARTNERSHIP WITH
PRAIRIE ROBOTICS



THE TEAM



Nolan Flegel
Machine Learning



Rishabh Prasad
Front-End Services



William Peers
Back-End Services

OBJECTIVE

CREATE AN OBJECT
DETECTION MODEL FOR
RARE AND SEVERE
CONTAMINATION IN
HOUSEHOLD RECYCLING



Business Need

- Reduce Risk
- Reduce Cost



Vogel Disposal
(<https://www.vogeldisposal.com/vogel-disposal-news/propane-tank-garbage-truck-fire-4094>)

Opportunity and Innovation

- Occurrences of these objects are rare
- Traditional Machine Learning is not applicable
- Create new datasets

STATUS
GREEN

Things we did

- Attended Prairie Robotics Global Summit Series
- Set Schedules for Weekly Sprints and Pair Programming Sessions
- Project Setup
- Meetings to gather project requirements

Individual Contributions



Addressing Comments

Tim:

“It might be interesting to think about a household Knowledgebase of sorts if there is time (educating the masses before throwing "bad" things in bins)”



Project Issues / Changes

No Issues or changes
at this time!



Overview

Board Capstone - Copy-Waste Private WP NF RP Invite

- Backlog**
 - Categorize Datasets (0/3)
 - Download Datasets
 - Annotate Datasets
 - Setup Front-end Architecture of the UI (RP)
 - Research Map options for UI (RP)
 - + Add a card
- Next Sprint**
 - Meeting with Dr. El-Darieb / Sam (Sep 29 1/3) (NF)
 - + Add a card
- Current Sprint**
 - Initial Templates for Project Documentation (0/8) (NF WP)
 - Scrum #2 Presentation (0/4)
 - Meeting with Tim (1 0/3) (RP)
 - + Add a card
- Doing**
 - Research YOLOv5 implementations
 - Get access to PR github (2/3)
 - Meeting with Avery (Sep 24) (NF)
 - ENSE 405 - Project Proposal (RP)
 - Meeting with Matt/Sam (Sep 24 1/3)
 - Submit ENSE411 Project Proposal (NF WP)
 - Understanding the Customer (RP)
 - + Add a card
- Under Review**
 - Mitacs Proposal (1) (NF)
 - + Add a card
- Done**
 - Make Github (4/4) (WP)
 - Create Vlog

Copy-Waste

Overview Repositories 4 Packages People 3 Teams Projects Settings

Pinned

- cw-core (Public)

Repositories

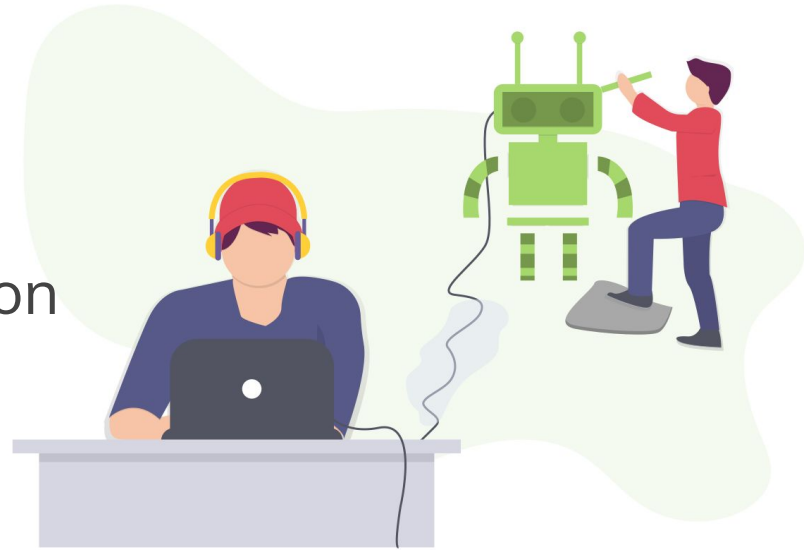
Find a repository... Type Sort New

cw-core	☆ 0 🗑 0 🔒 0	Updated 7 days ago
cw-copypaste (Private)	☆ 0 🗑 0 🔒 0	Updated 9 days ago
cw-greenscreen	☆ 0 🗑 0 🔒 0	Updated 9 days ago
cw-bintip (Private)	☆ 0 🗑 0 🔒 0	Updated 9 days ago

View all repositories

Next Up

- Meetings!
- Mitacs Proposal
- More Documentation



Reflection

- Does the team feel "on track"?
We believe we are still on track
- What progress does the team particularly feel good (great) about?
Extensive requirements gathering phase and research, exploring technologies, plans of action moving forward

Reflection

- What barriers (if any) does the team feel are a current impediment to success?
Nothing at this time
- What help (if any) does the team require to move positively forward?
Guidance from our advisors we will receive throughout our upcoming meetings

Reflection

→ What questions or concerns does the team have (if any)?

No questions at this time

References

- Vogel Disposal
(<https://www.vogeldisposal.com/vogel-disposal-news/propane-tank-garbage-truck-fire-4094>)
- MLive
(https://www.mlive.com/news/grand-rapids/2017/06/propane_tanks_cause_explosion.html)