Document origin of pretrained models provided in autoware.universe #2653

Answered by miursh VRichardJP asked this question in Ideas

The autoware.universe perception modules contains many packages relying on CNNs:

- https://github.com/autowarefoundation/autoware.universe/tree/main/per ception/lidar_apollo_instance_segmentation
- https://github.com/autowarefoundation/autoware.universe/tree/main/per ception/lidar_centerpoint
- https://github.com/autowarefoundation/autoware.universe/tree/main/per ception/traffic_light_ssd_fine_detector
- https://github.com/autowarefoundation/autoware.universe/tree/main/per ception/tensorrt_yolo
- https://github.com/autowarefoundation/autoware.universe/tree/main/per ception/traffic_light_classifier

For each, a pretrained model is hosted on https://awf.ml.dev.web.auto but not much information is given on how each was trained. For example, the following information would be interesting to have:

- dataset used for training. If trained on a private dataset, at least some information on the nature of the data (e.g. camera images from Japanese traffic lights, lidar data from urban traffic in Europe...)
- training/testing set size, number of objects by types...
- test accuracy

The point is to have a rough idea of what kind of performance one can expect from these pretrained models, and also what it would take to train new ones.

Would it be possible to gather such information and document it?







Answered by miursh on Jun 10, 2022

@VRichardJP

We can gather details of the data currently used and writing it to README may be easy way. Is that enough? or maybe this discussion is not only that? From the perspective of continuous deployment, let me and TIER IV MLOps member discuss about this.

View full answer ↓

O comments · 4 replies

Oldest

Newest

Top



yukkysaito on Jun 8, 2022 (Maintainer)

@miursh @aohsato @eratostennis can you comment?

1

0 replies



Category

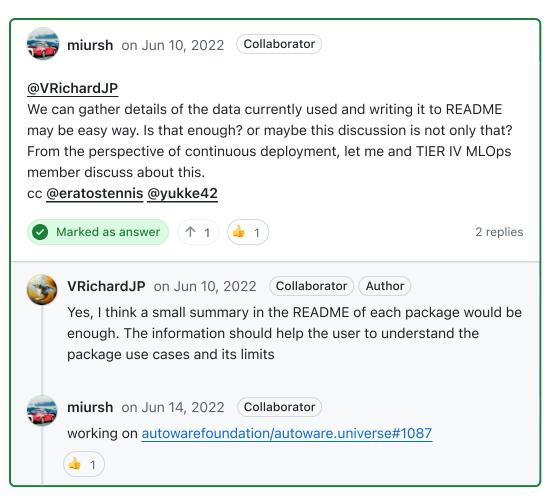
Ideas

Labels

component:percept...

3 participants





Answer selected by VRichardJP