

Title

Add ML-assisted image annotation to napari

Category

Image Analysis

Challenge

Add ML-assisted image annotation to napari. Computer-assisted volume annotation helps speed up generating expert-curated ground truth for downstream machine learning. Currently, only few GUI clients support it, most notably 3D Slicer. napari (<https://napari.org>) is a very flexible and hackable GUI to view and annotate images. Compared to Slicer, napari is easy to customize and tightly integrate with specific workflows.

Benefit

Adding support for ML-assisted image annotation to napari would provide a simple and accessible platform for future development of customized annotation workflows.

Helpful Tools, Packages, or Software

NVIDIA Clara AIAA (<https://docs.nvidia.com/clara/clara-train-sdk/aiaa/overview.html>), napari (<https://napari.org>)

Test Data

BraTS (<https://www.med.upenn.edu/cbica/brats2020/data.html>,
<https://www.kaggle.com/awsaf49/brats20-dataset-training-validation>)