

NOMADS Sprint 1



Neurodata's **O**pensource **M**ethod for
Autonomous **D**etection of **S**ynapses

Mission:

- Open Source
- Easily Runnable
- Automatic Synapse Detector for AT Data
- Performing at or Above the State of the Art
- Requiring Minimal Labels & Hyperparameters

Let's be ***REAL***:
Existing Solutions ***DO NOT*** Meet these Requirements

<u>PIPELINE</u>	<u>OPEN SOURCE</u>	<u>EASILY RUNNABLE</u>	<u>MINIMAL LABELS & HYPERPARAMS</u>
Collman SVM	x	x	x
PLoS Pipeline	☑	x	x
NOMADS	☑	☑	☑

The **NOMADS** *Advantage*

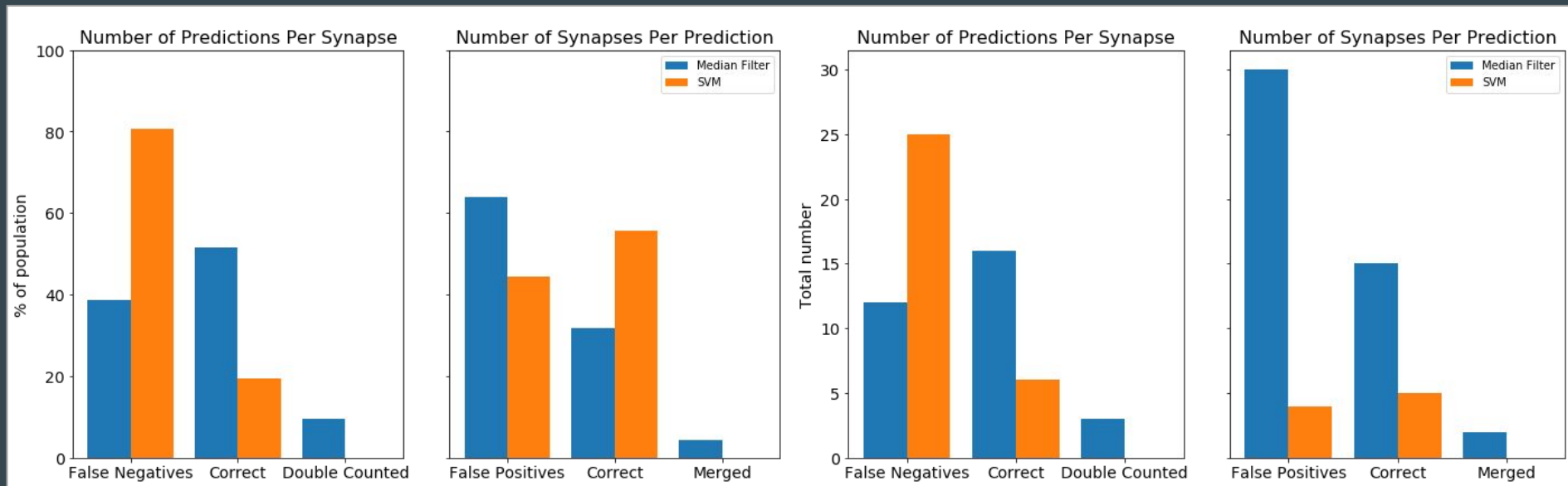
- **Open Source**
 - Github
 - **Easily Runnable**
 - Docker
 - **Cutting Edge Performance**
 - Quality Assessment
-

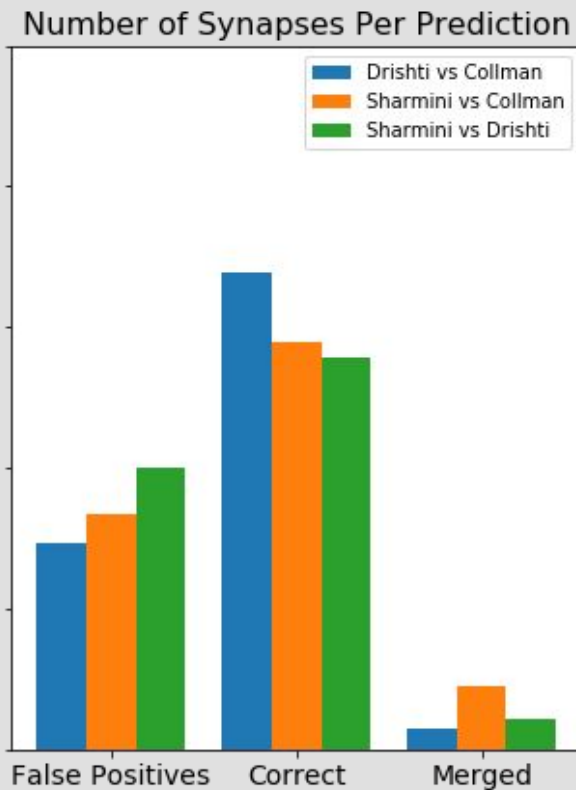
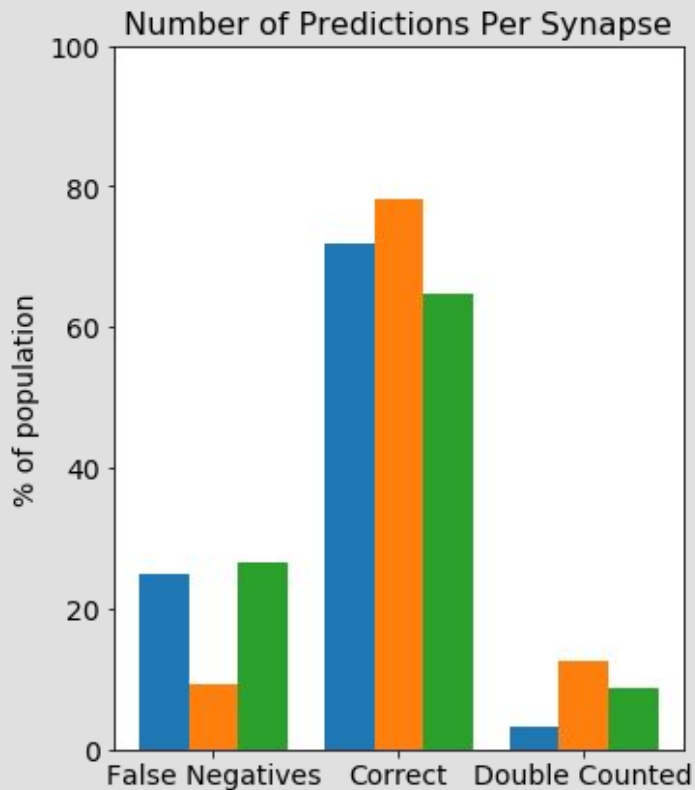
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Live Demo!

please god let this work...

State of the Art Comparison





Hand Picked, Quality Checked, 100% Vegan Labels

Progress is On Schedule

<u>Sprint</u>	<u>Due Date</u>	<u>Requirements</u>
Sprint 1	11/6	<ul style="list-style-type: none">● MVP algorithm for synapse detection (unsupervised)● Meaningful metric for evaluating label quality● A standard workflow for generating labels<ul style="list-style-type: none">○ @AVATAR