

Introduction to Connectomics Vesicle Project Progress Report

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1 Summary

Currently, we were able download the em and synapse data from the server. We also have documentation of portions of the MATLAB code and our plans for the program pipeline. However, our limited knowledge of MATLAB has made progress difficult. Fortunately, we found a scikit RandomForestClassifier package that we can use as our classifier, so we could save time and not have to code the classifier ourselves.

2 Updated Goals

The original goal is to train the random forest program based on multiple features, complete the majority of the project by second week. Now we decided to focus on one feature. Originally we planned to convert the entire MATLAB code, but we have decided instead to code a basic working pipeline for the synapse detection program. This way, we can better understand the pipeline without getting distracted by specifics in the MATLAB code.

3 Updated Timeline

Our timeline originally left us a week for polish, but we are still not complete the program. We expected this to happen, but we will do our best to create a working program by presentation time.