

# End of sprint presentation

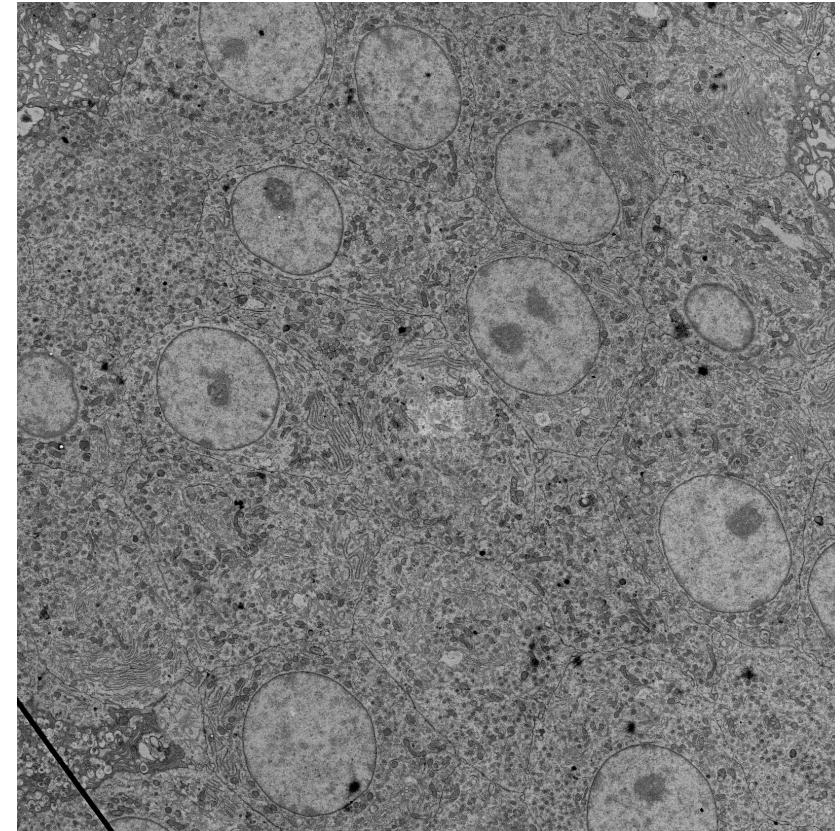
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# Main goal

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Create a ML model that assists  
in the annotation process of  
electron microscopy data by  
learning on minimal annotation.



# Sprint goals



Improving neural networks



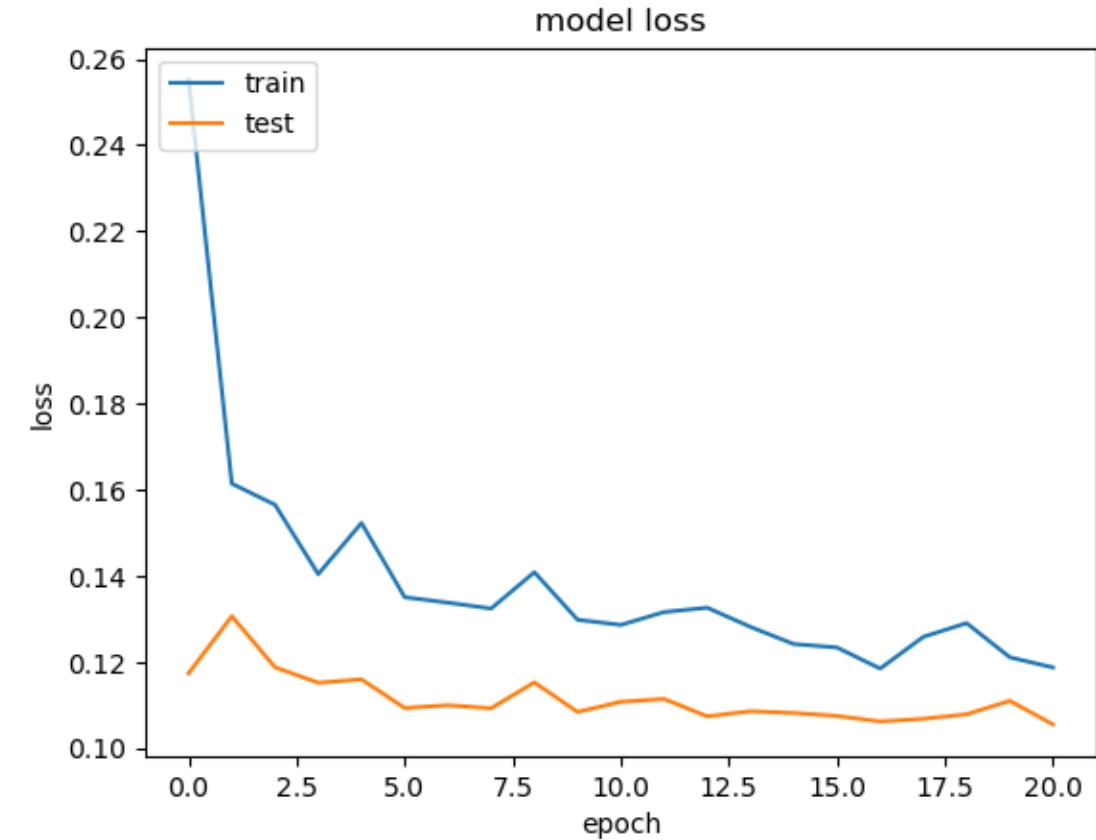
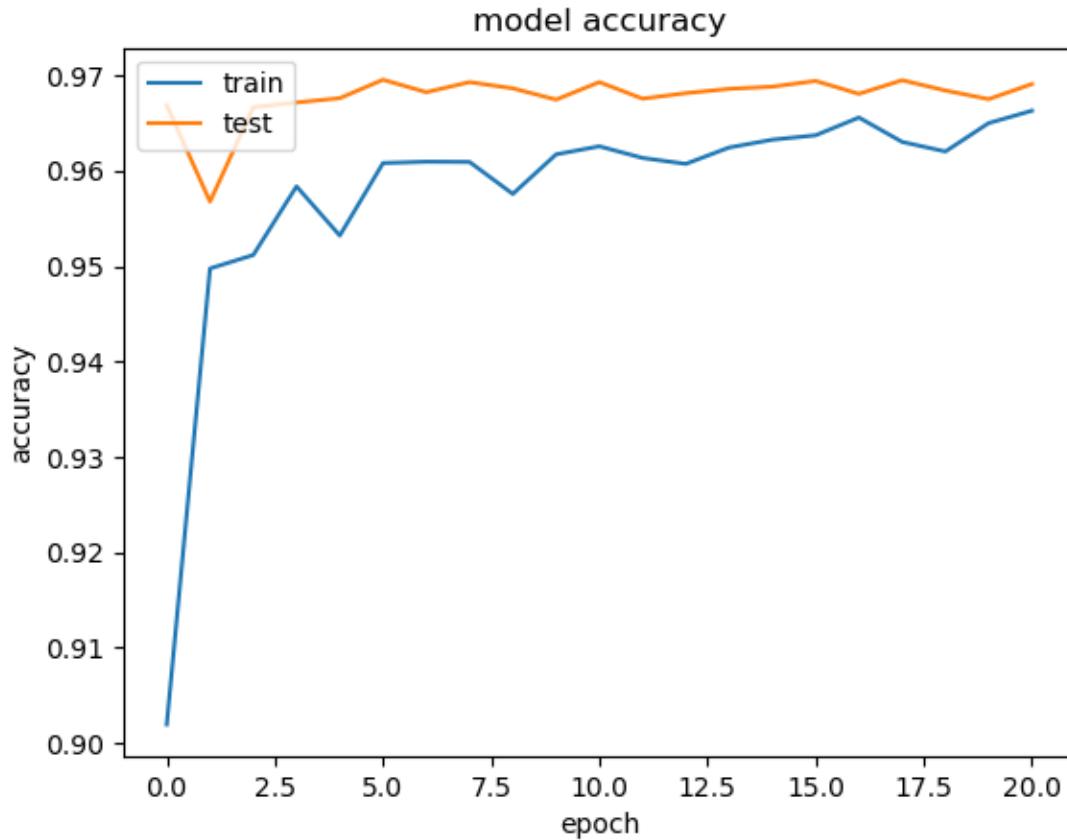
Improve SVM



# Neural network

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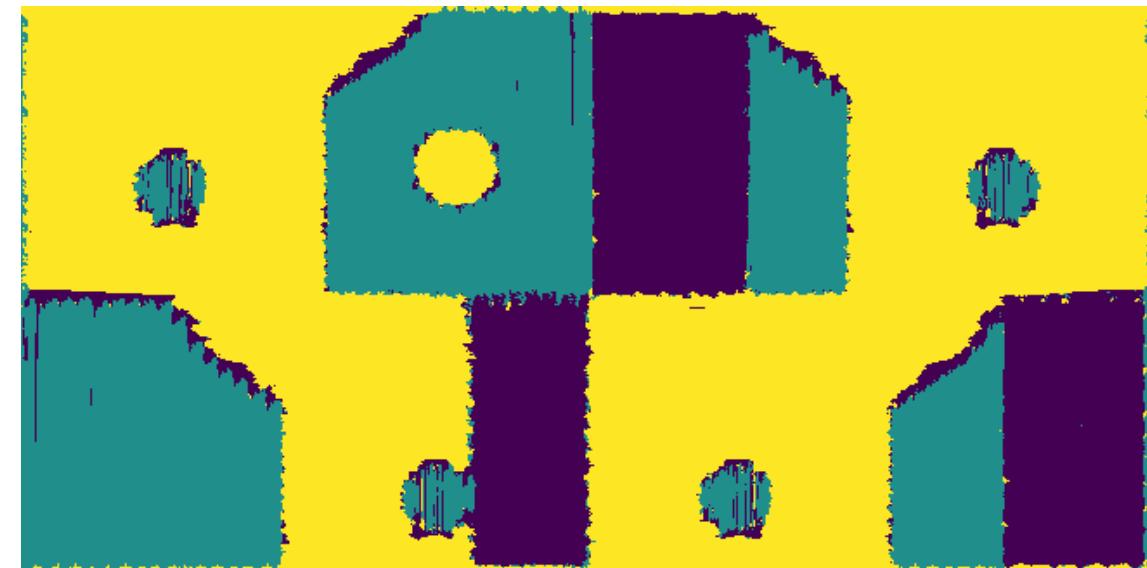
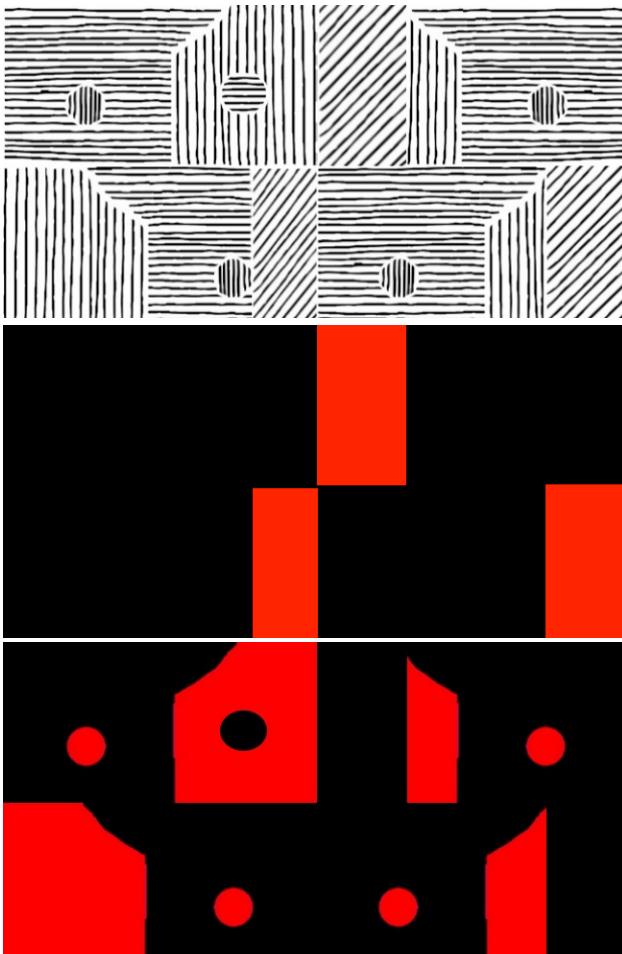
## Optimal model



# Striped dataset

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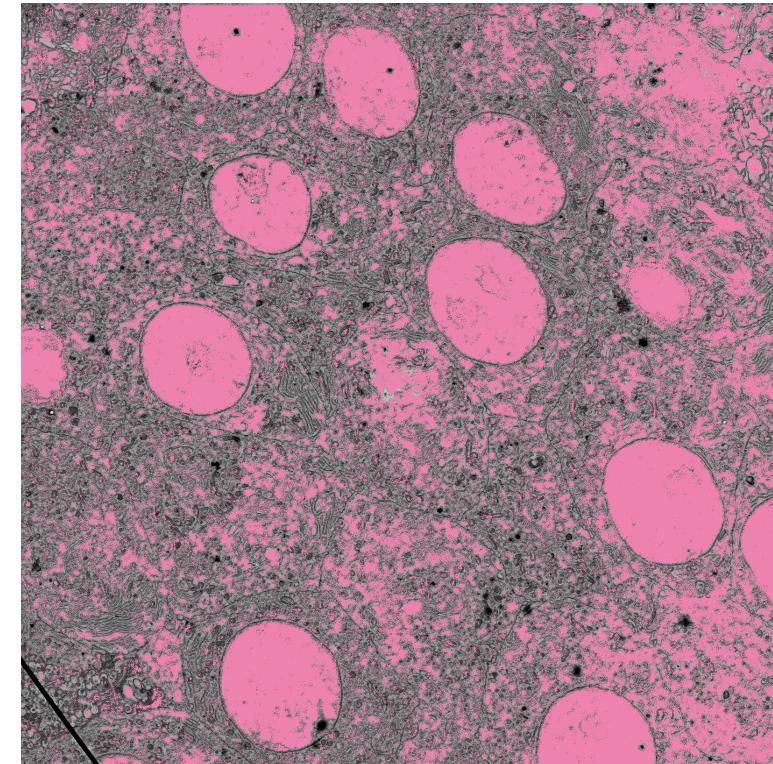
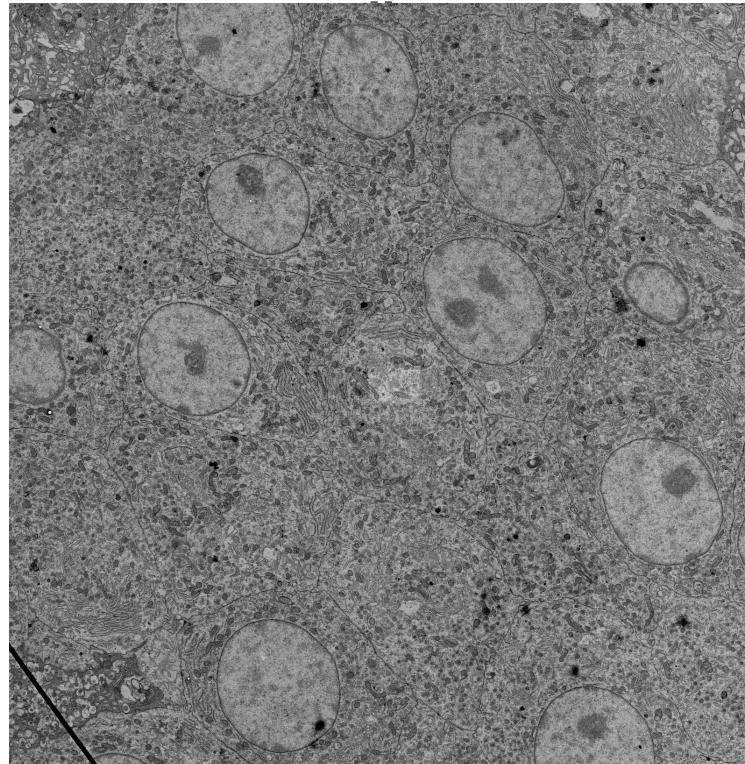
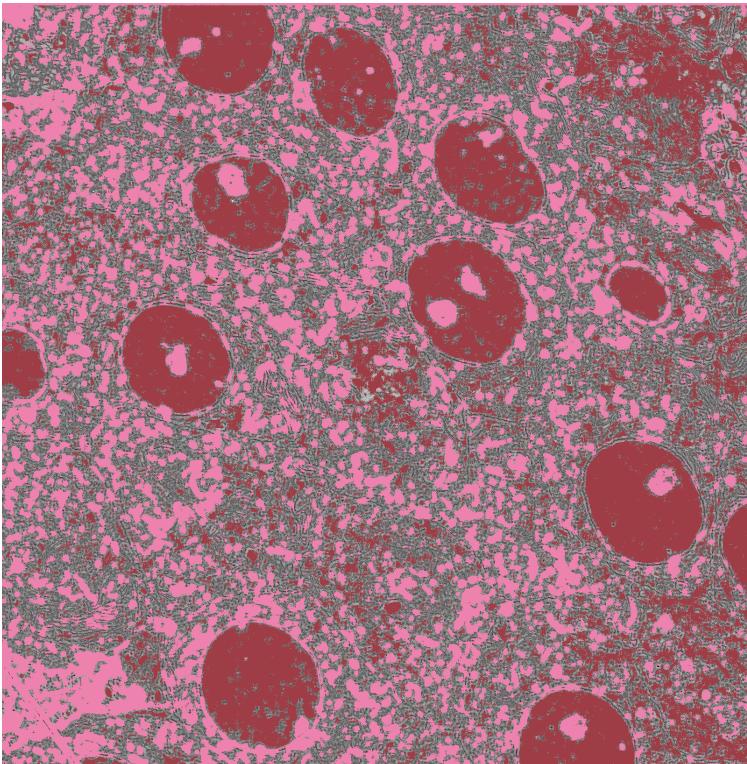
## Input



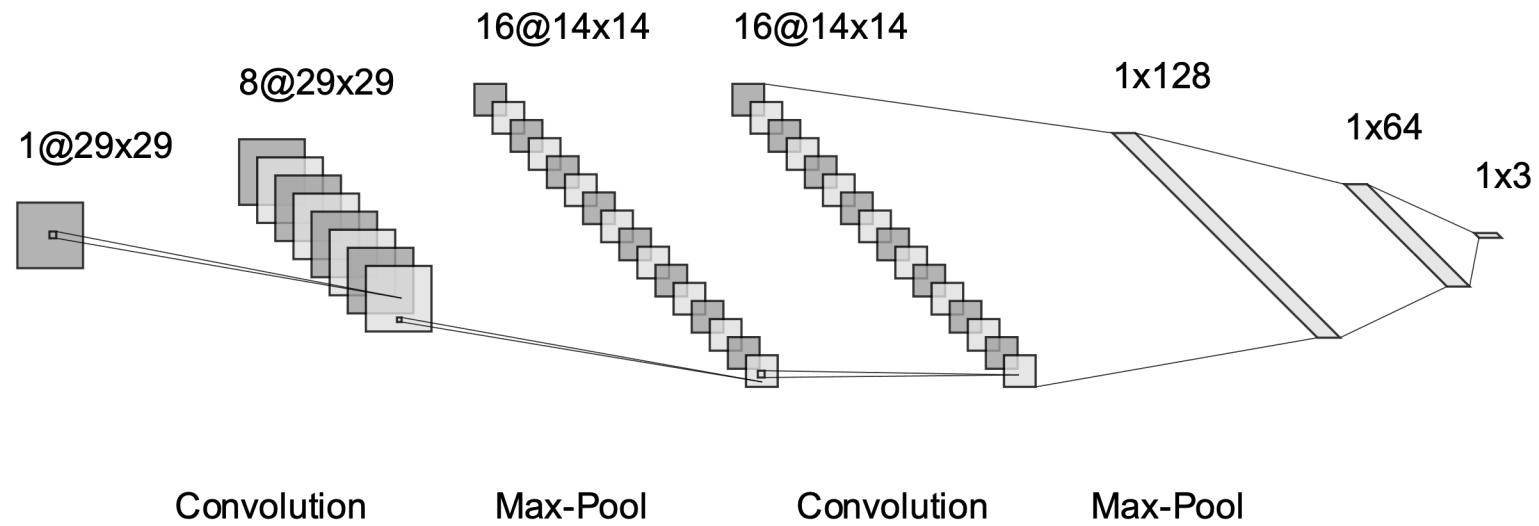
# SVM

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## Input

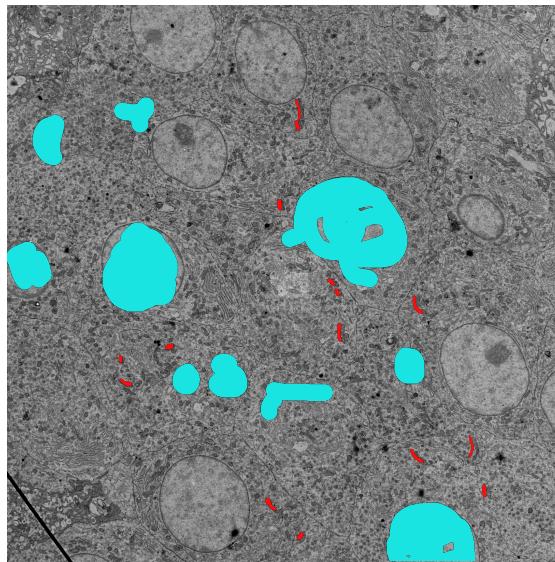
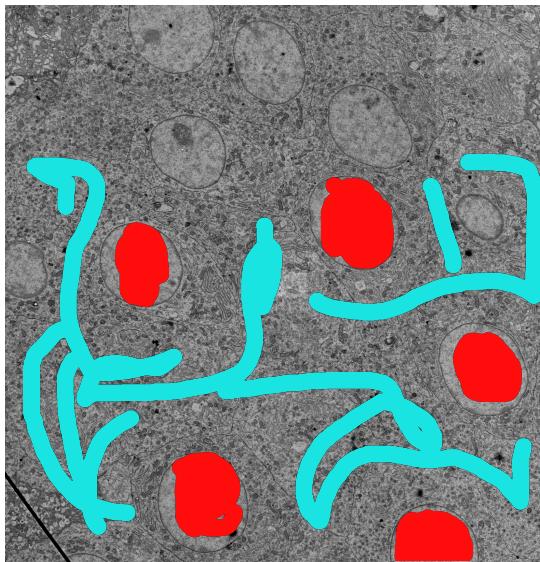


# Bastet Model

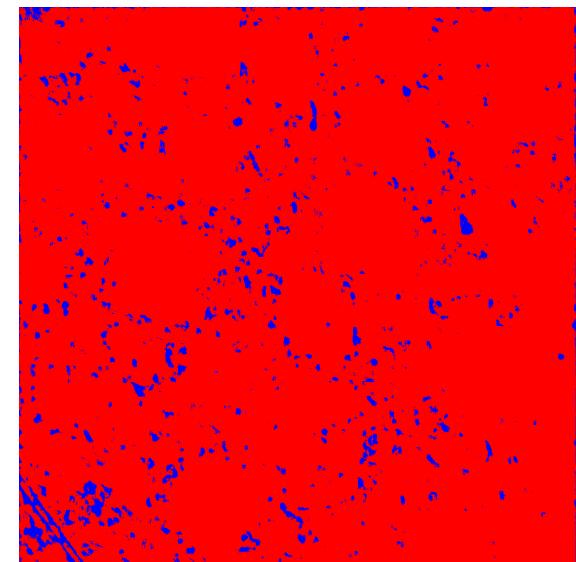
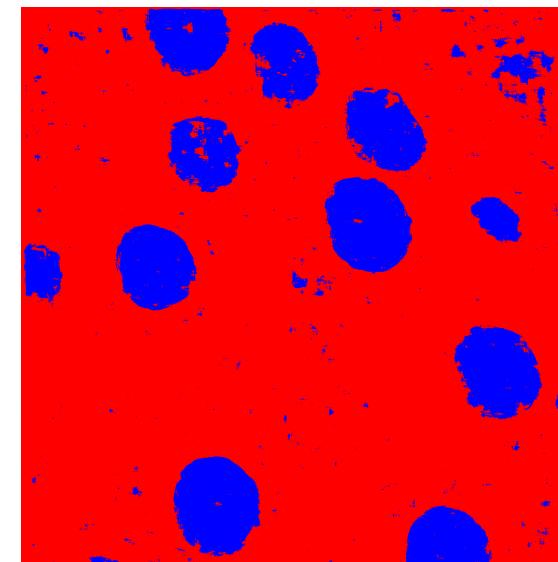


# Bastet

## Input



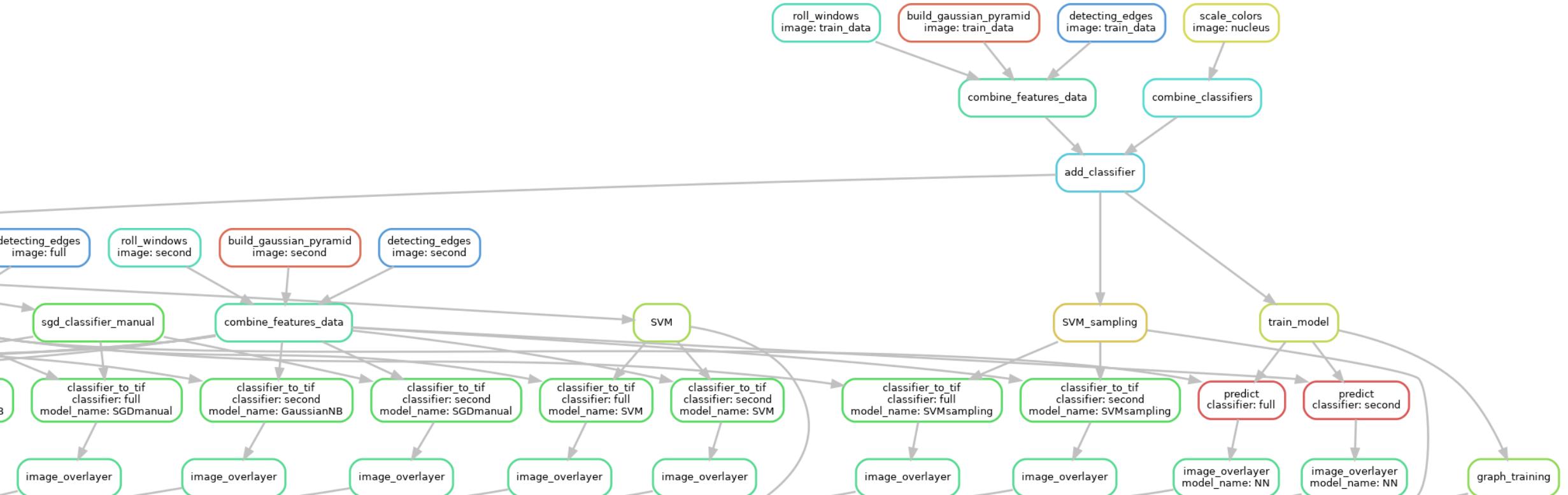
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# Finished Pipeline

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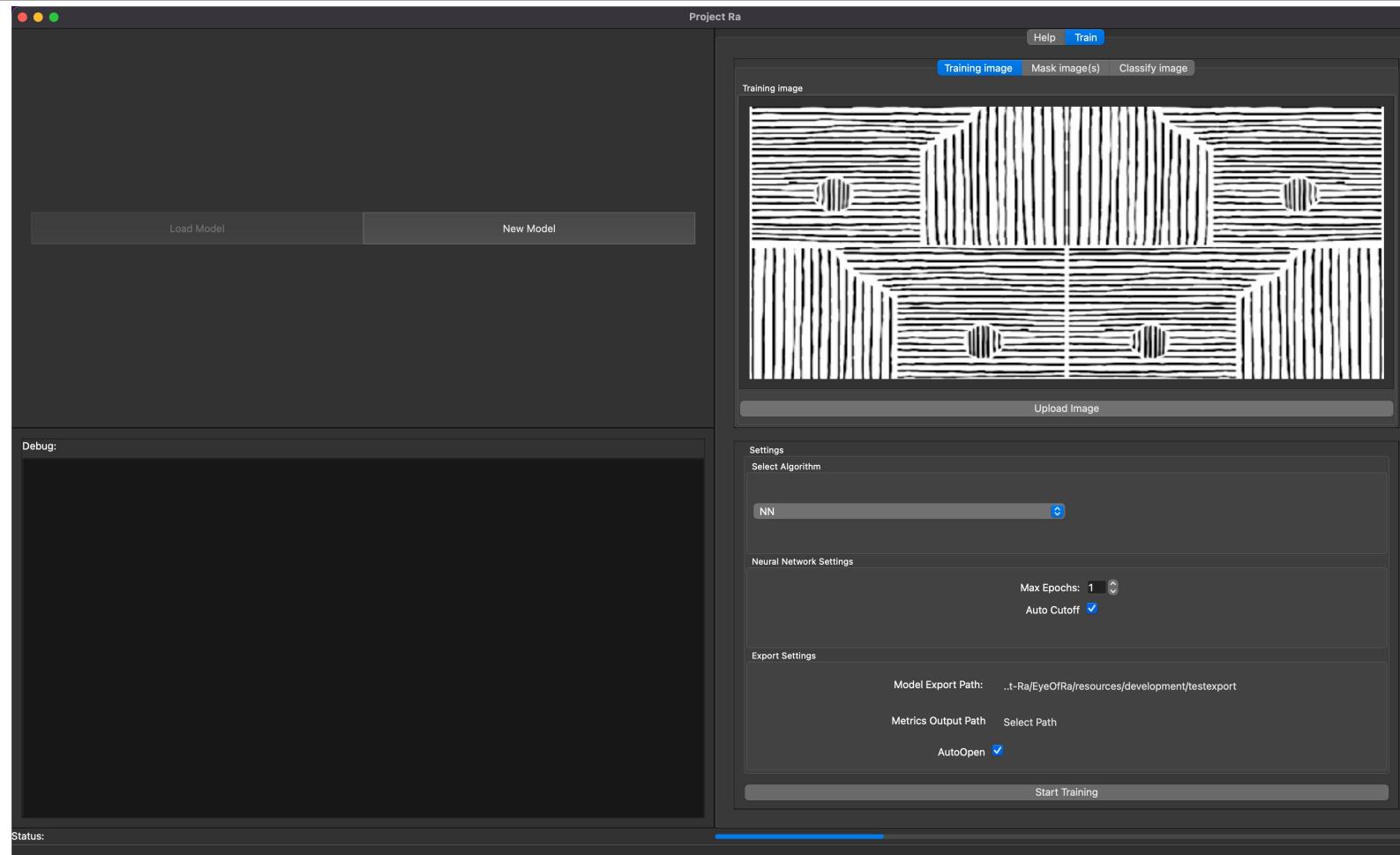
# Optimal model



# Qt

# Interface (Qt)

## Demo



# Interface

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## Future and difficulties

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Make fully functional

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Bugfixes

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Provide user feedback

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Write help page

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More flexible

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Better formatted code

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Annotation tool

# Conclusion

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Overall performance of convolutional neural networks outclass regular machine learning algorithms significantly in accuracy, speed of training/classification and ease of implementation.

The original goal of this project seems to be too complex to solve in half a year with both limited knowledge and resources (GPU's).