Cylinder Test Assessment Using AI

EDAN70

By Lucy Albinsson, Joel Sigurdsson and Gillis Oldfeldt
Supervised by Andreas Heuer

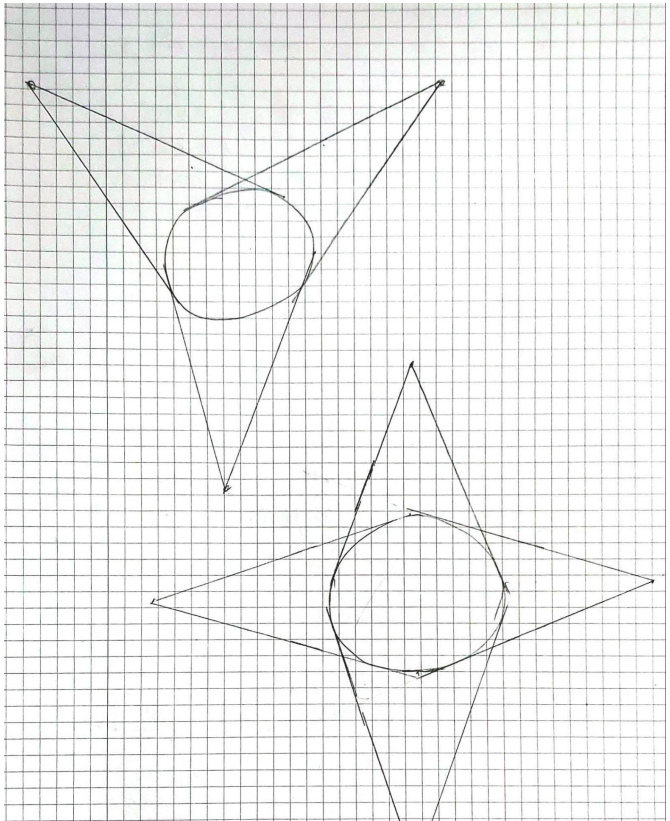
Cylinder Testing

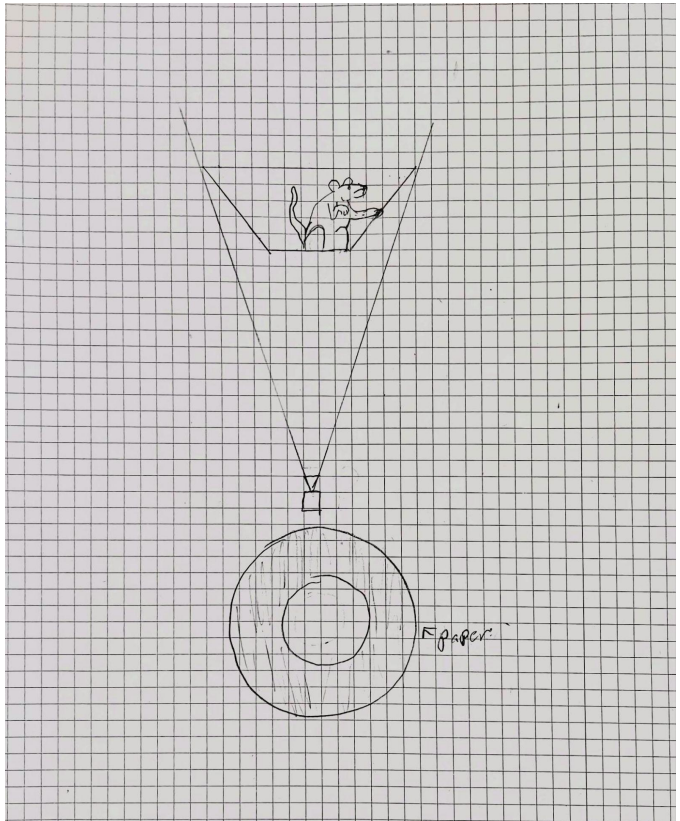
Cylinder Test Assesment for Parkinson’s Disease

DeepLabCut:

a software package for animal pose estimation

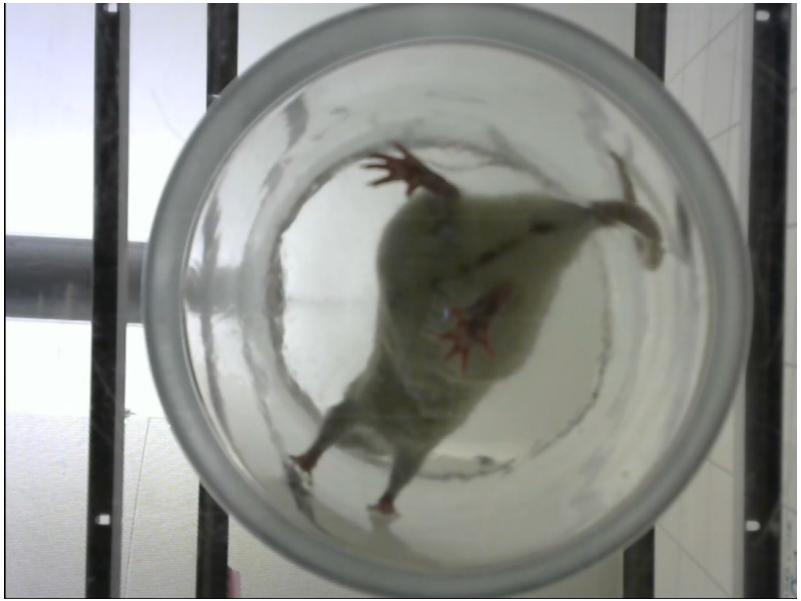
Initial Idea

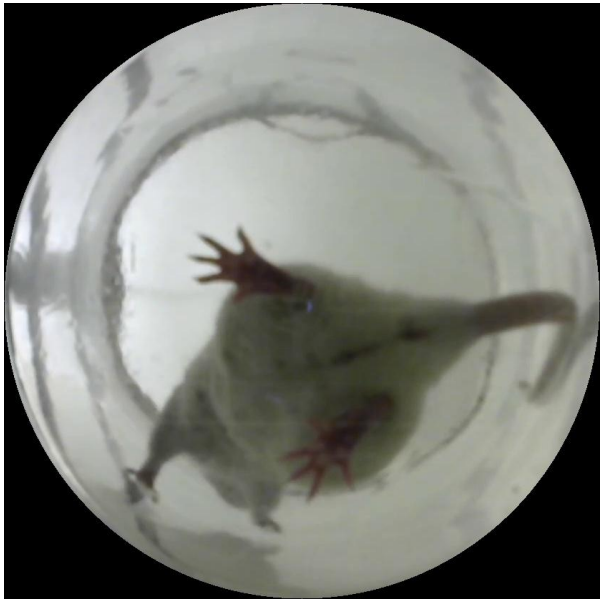




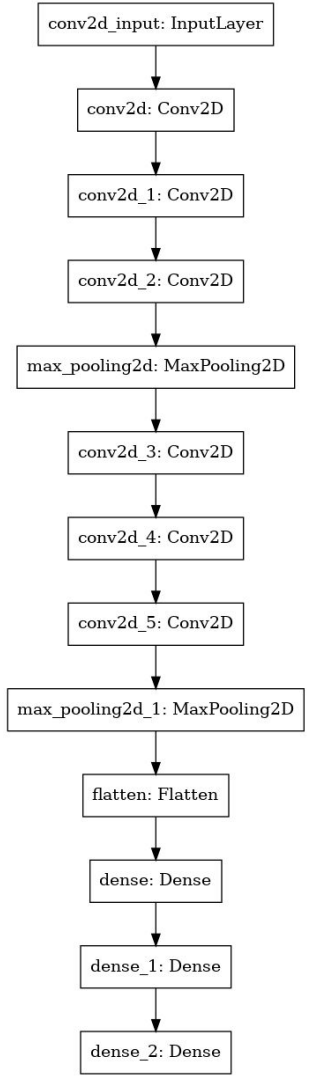
Paper

Image extraction





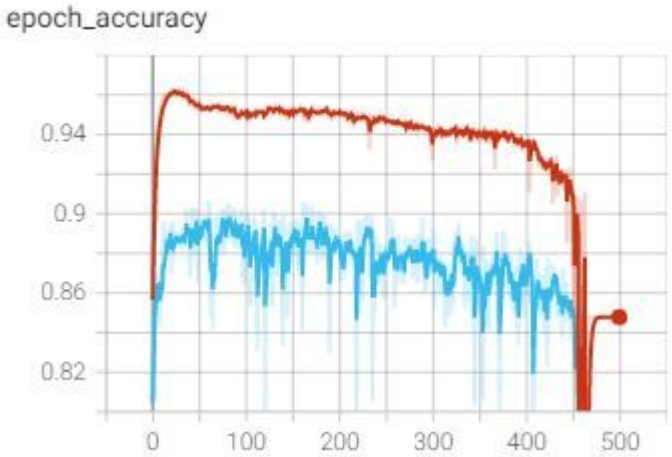
scikit
learn

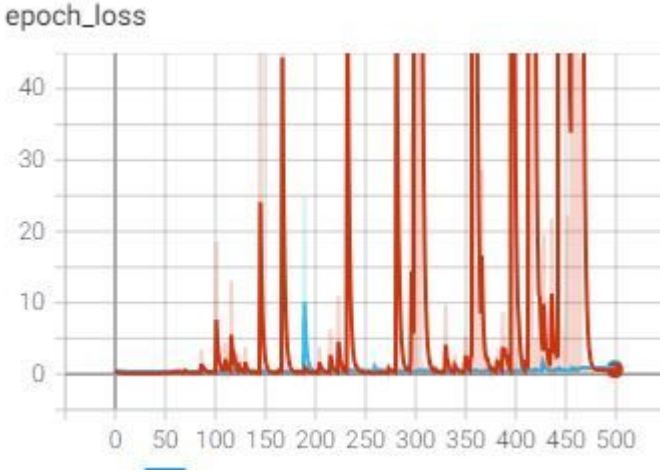

conv2d_input: InputLayer
conv2d: Conv2D
conv2d_1: Conv2D
conv2d_2: Conv2D
max_pooling2d: MaxPooling2D
conv2d_3: Conv2D
conv2d_4: Conv2D
conv2d_5: Conv2D
max_pooling2d_1: MaxPooling2D
flatten: Flatten
dense: Dense
dense_1: Dense
dense_2: Dense

Training data from Tensorboard

epoch_loss

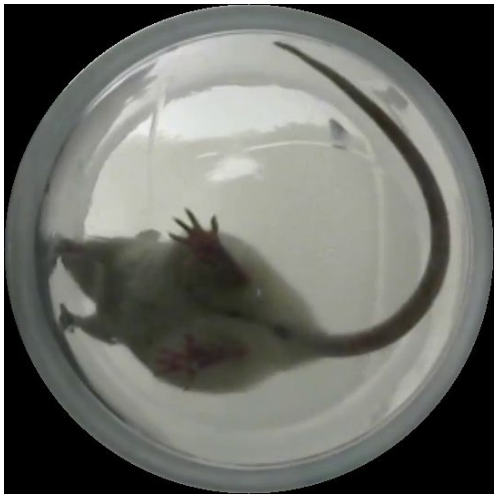
Overfitting



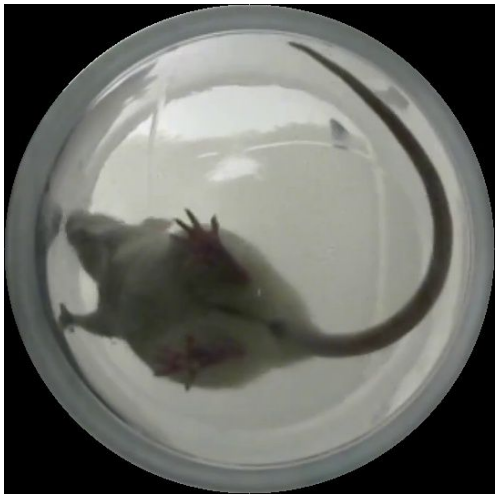


Too similar data?

Left



Both



Right

What could have been done differently?

- Different camera-setup
- Better model
- Keras-tuner

Questions?