BIAI

Classification of furry animals

Analysis of the task

Dataset

Training set:
- Cat: 1845
- Dog: 1655
- Rabbit: 967
- Sheep: 1740
- Squirrel: 1782

7989 images
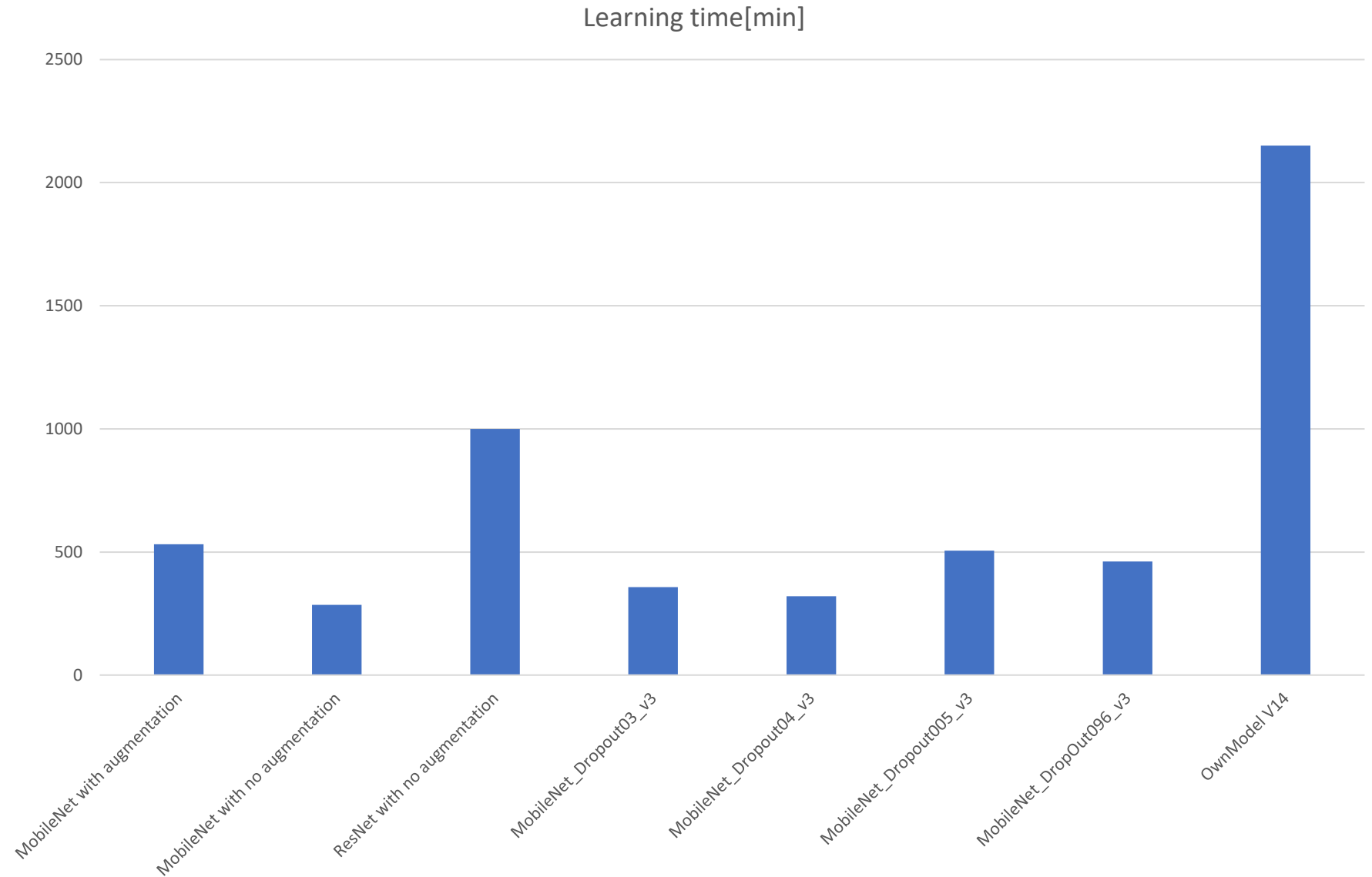
Testing set:
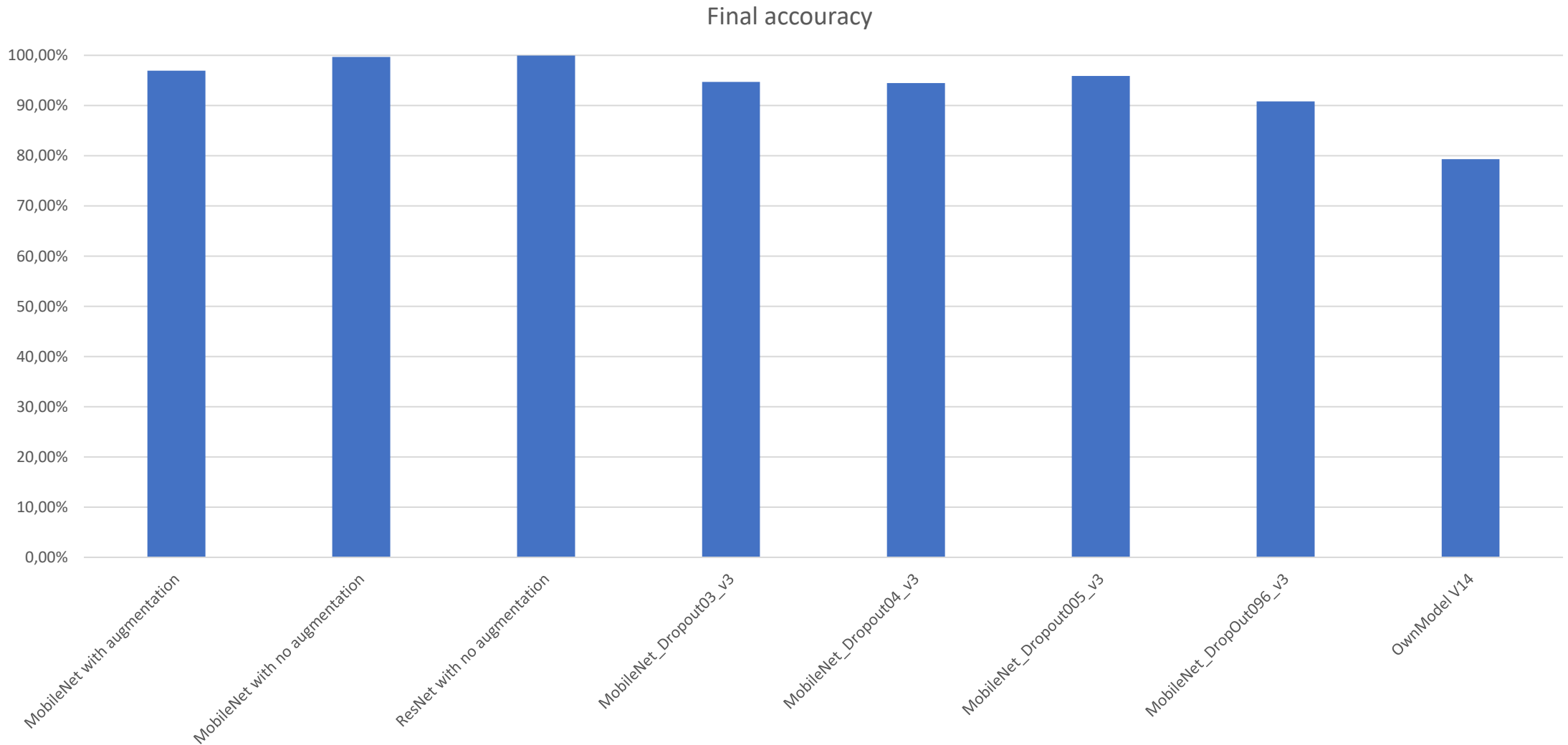- Cat: 100
- Dog: 100
- Rabbit: 40
- Sheep: 80
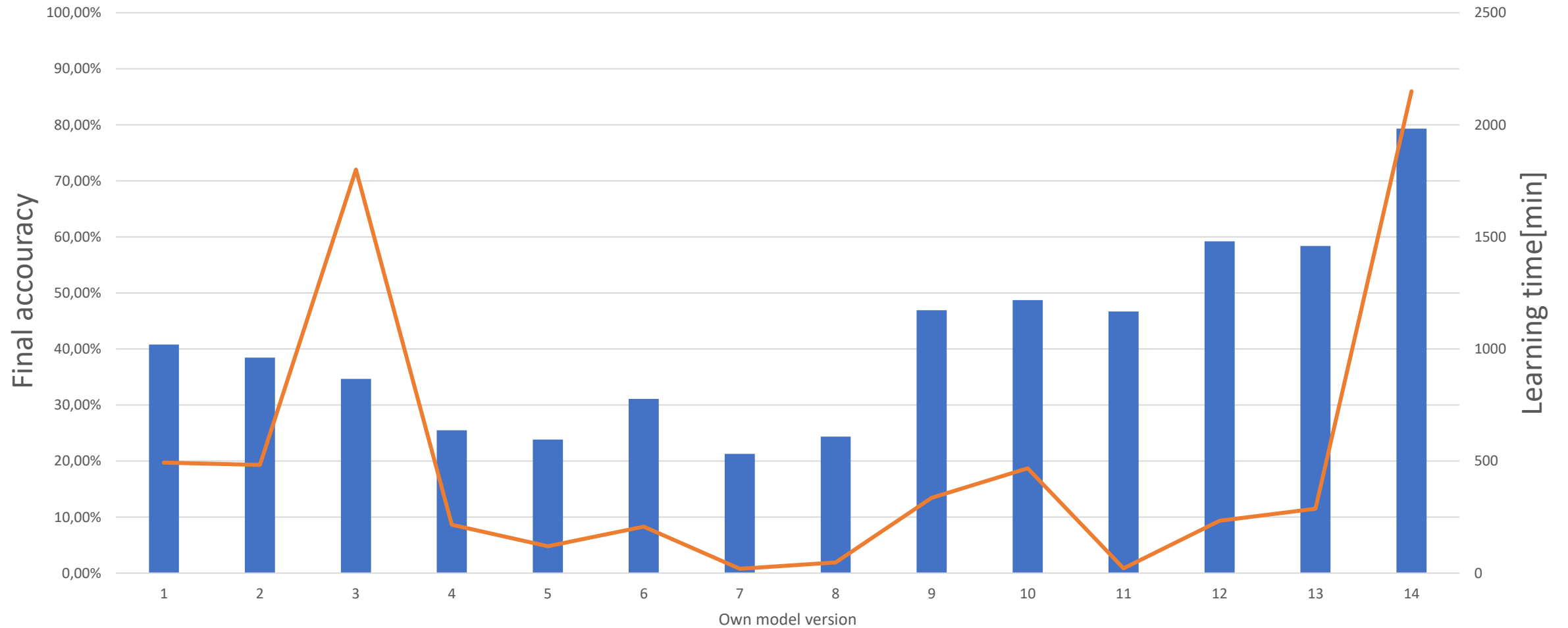- Squirrel: 80

400 images

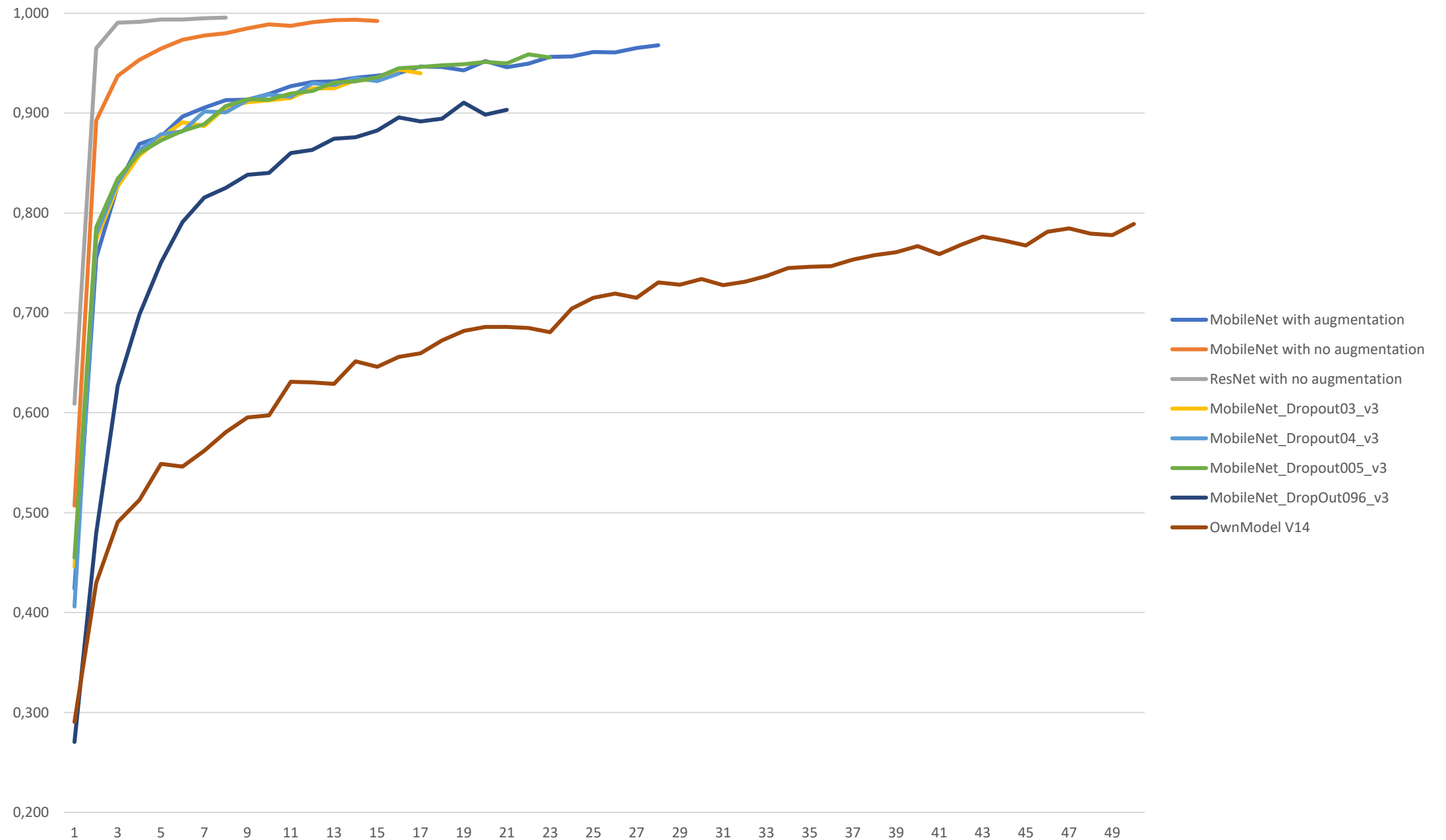# Learning of pretrained models

- MobileNet
- ResNet

Learning time[min]

Accouracy of pretrained models

Final accouracy

Own model versions

V1

1,633,226 params

Accouracy/Epoch

- MobileNet with augmentation
- MobileNet with no augmentation
- ResNet with no augmentation
- MobileNet_Dropout03_v3
- MobileNet_Dropout04_v3
- MobileNet_Dropout005_v3
- MobileNet_DropOut096_v3
- OwnModel V14

Accouracy = f(t)

MobileNet with augmentation • MobileNet with no augmentation • ResNet with no augmentation • MobileNet_Dropout03_v3

MobileNet_Dropout04_v3 • MobileNet_Dropout005_v3 • MobileNet_DropOut096_v3 • OwnModel V14

Carbon footprint

- Total learning time: 10348 minutes => 172 hours

- PC power: 180 W

- Electricity used: 31 kWh

- Energy equivalent of a ton of coal: ~440 kWh

We used around 14 kg of coal

Thank you for your time

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