Simple ResNet18 Functional Model Graphs

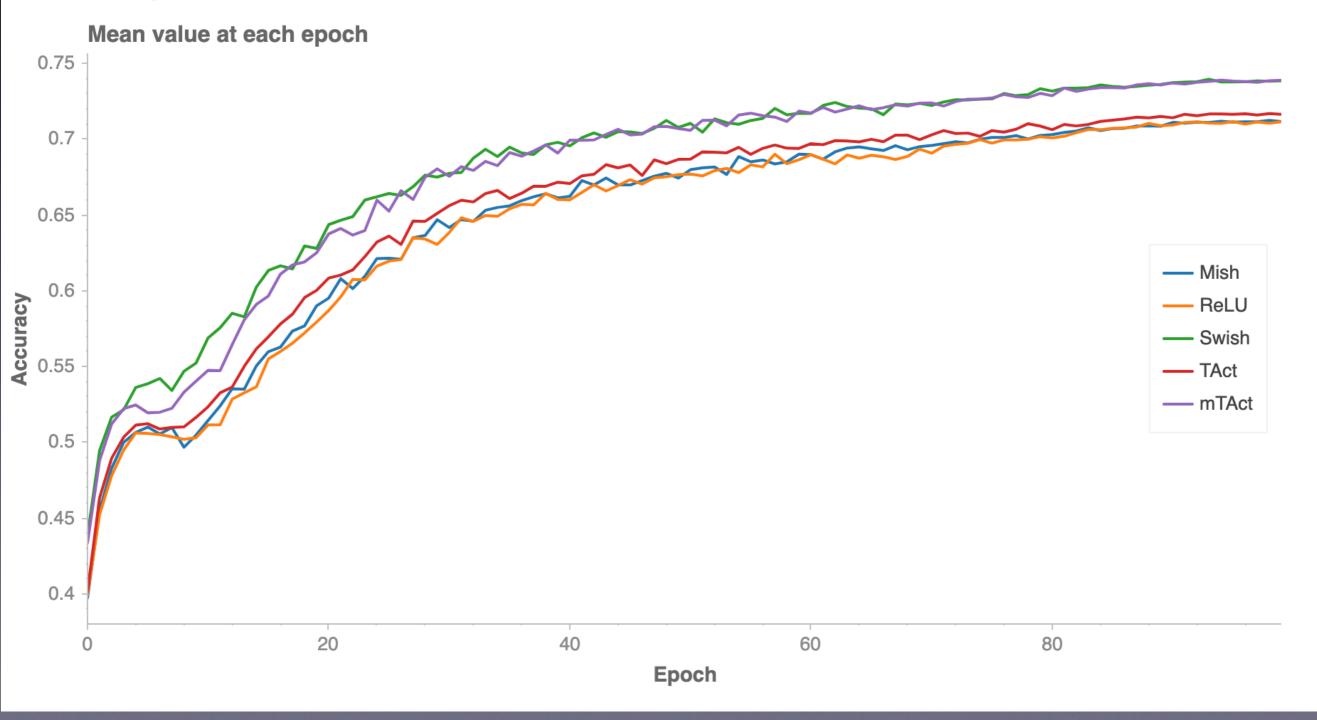
Gobind Puniani MATH 198: Spring 2020 04/16/20

Method

- Simple ResNet 18 model only with ResNet module modified
 - Functional model from two weeks ago
 - 5 activation functions: ReLU, Swish, Mish, TAct, and mTAct
 - 3 runs for each activation function
 - 100 epochs per run

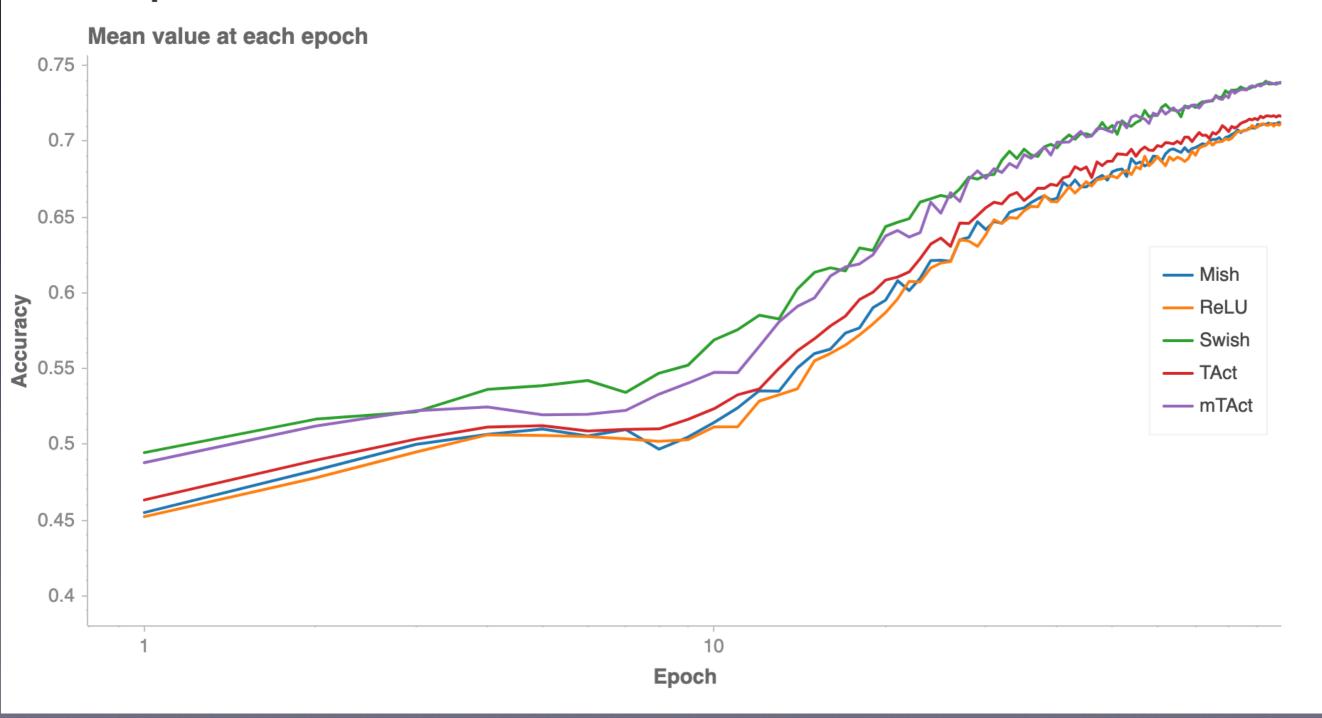
Epochs on a Linear Scale

Simple ResNet18 Model Results



Epochs on a Logarithmic Scale

Simple ResNet18 Model Results



Conclusion

- mTAct and Swish performed the best overall on average
 - Swish beat mTAct on lower epochs
 - Other 3 performed comparably throughout 100 epochs