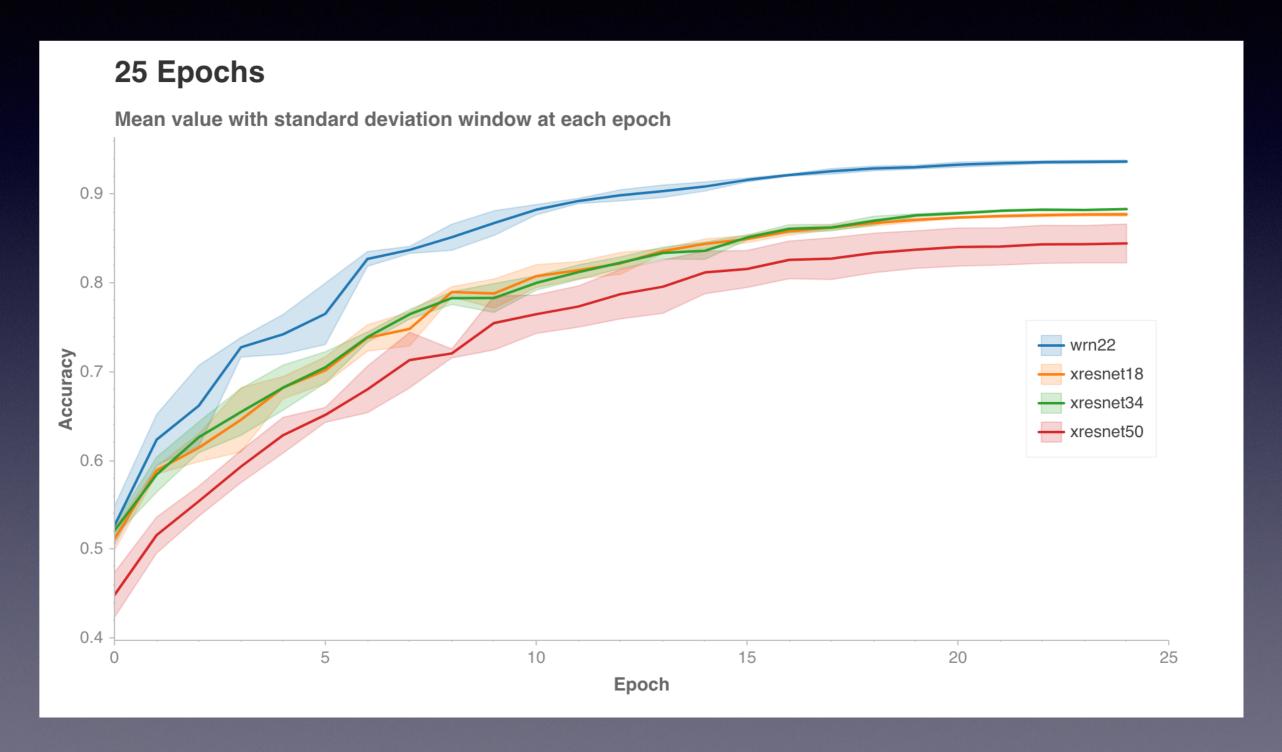
Graphs of Means and Standard Deviations Across 5 Runs

Gobind Puniani MATH 190: Fall 2019 10/18/19

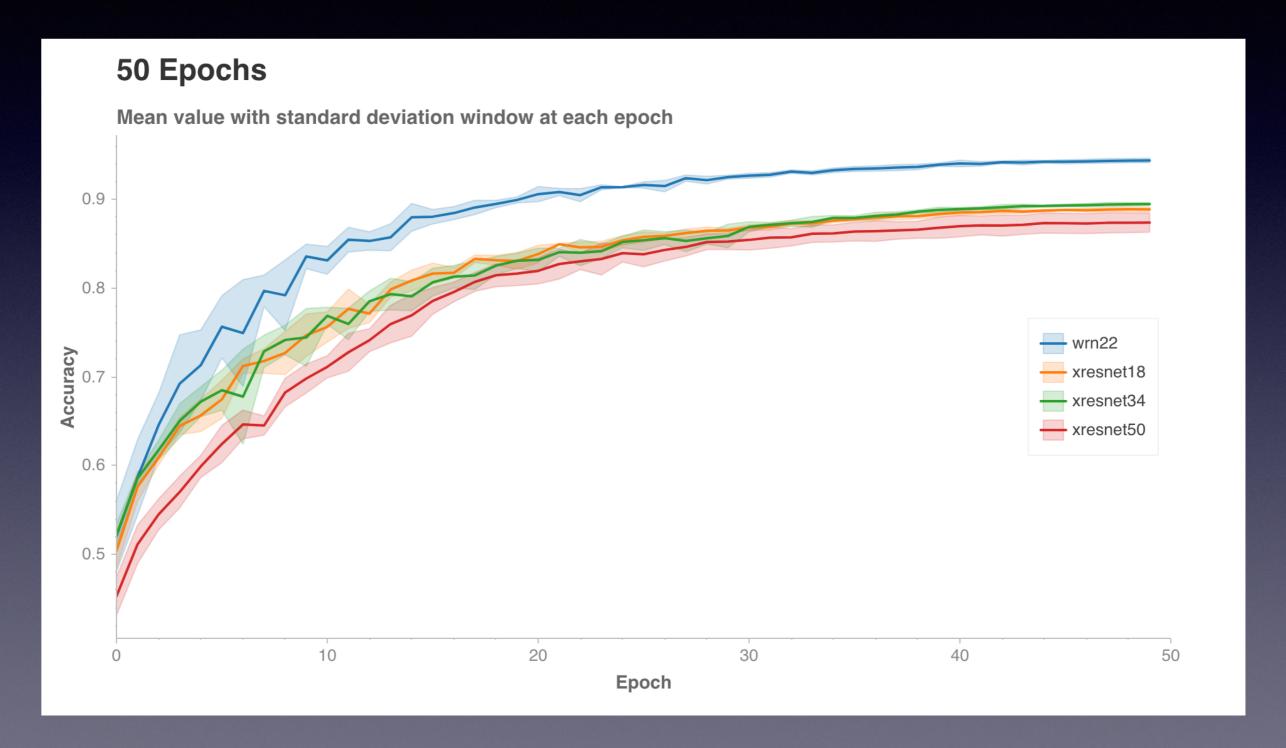
Procedure

- Patrick Manghera helped write the Python script for taking the mean and standard deviations
- 3 plots (25, 50, and 100 epochs)
 - 4 models on each plot
- Plots created using chartify library (accuracy vs. epoch)

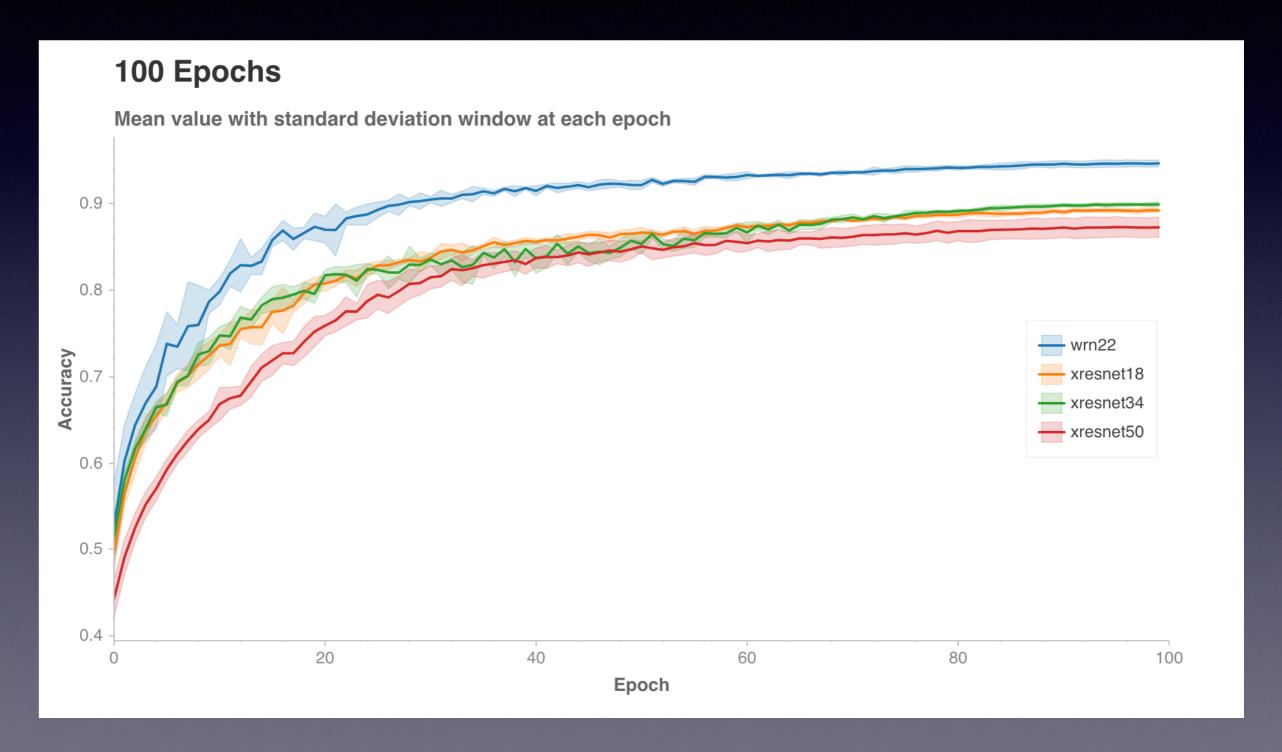
25 Epochs



50 Epochs



100 Epochs



Final Median Accuracy

	xresnet18	xresnet34	xresnet50	wrn22
25 Epochs	0.8772	0.883	0.8386	0.9367
50 Epochs	0.8884	0.8952	0.8765	0.9437
100 Epochs	0.8917	0.8988	0.8762	0.9484

Learning Rates

- xresnet18
 - 25 Epochs: $3.02 \cdot 10^{-3}$
 - 50 Epochs: $3.02 \cdot 10^{-3}$
 - 100 Epochs: $4.37 \cdot 10^{-3}$
- xresnet34
 - 25 Epochs: $4.37 \cdot 10^{-3}$
 - 50 Epochs: $3.63 \cdot 10^{-3}$
 - 100 Epochs: $2.51 \cdot 10^{-3}$

- xresnet50
 - 25 Epochs: $8.32 \cdot 10^{-4}$
 - 50 Epochs: $6.92 \cdot 10^{-4}$
 - 100 Epochs: $1.20 \cdot 10^{-3}$
- wrn22
 - 25 Epochs: $2.51 \cdot 10^{-3}$
 - 50 Epochs: $2.51 \cdot 10^{-3}$
 - 100 Epochs: $3.02 \cdot 10^{-3}$