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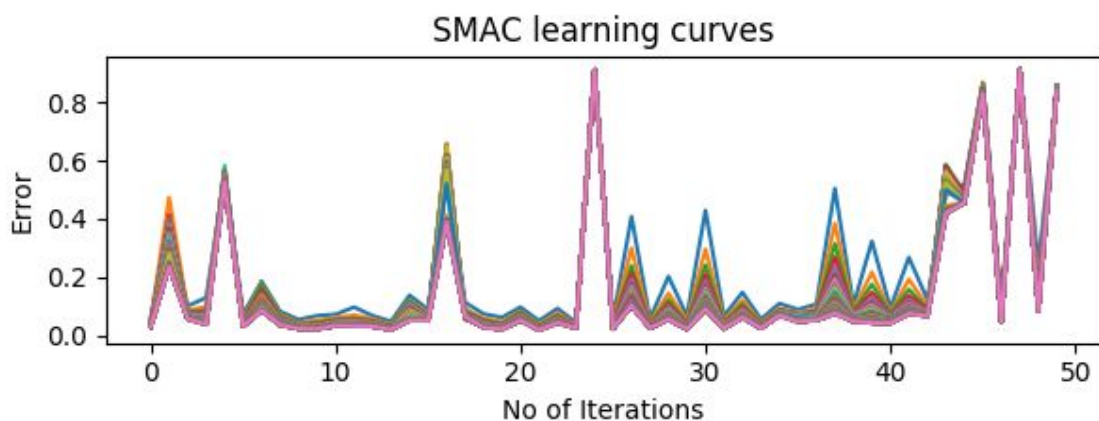
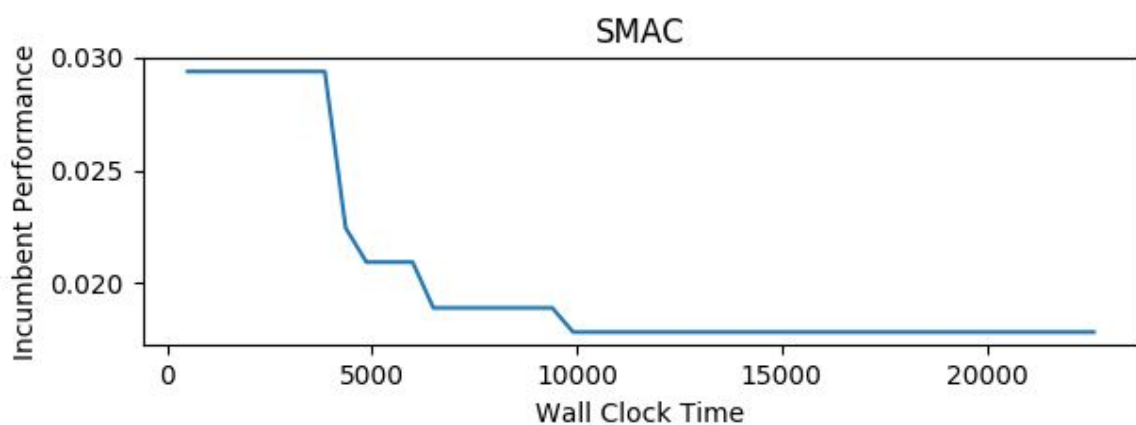
Deep Learning Lab Course

Machine Learning and Computer Vision Track

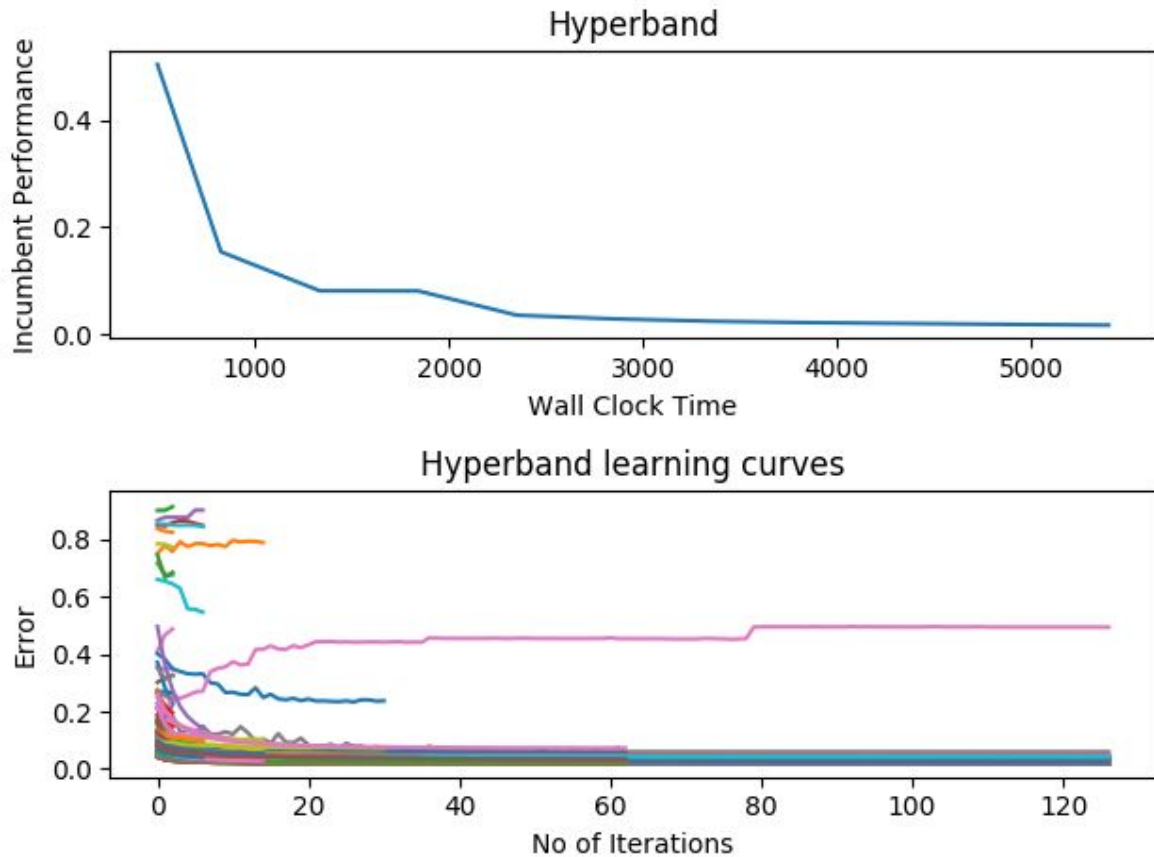
Exercise 6

I have implemented the configuration space which defined the bounds and types of each hyperparameter. I have used SMAC to find a good hyperparameter configuration and Hyperband to speed up the process. Given below are the plots obtained by using the given approaches

SMAC



HYPERBAND



Performance Comparison

- Hyperband reached optimal point quicker than the SMAC.
- Hyperband performance curve was also smoother than SMAC

Learning Curves Comparison

- Hyperband has lower number of curves than the SMAC.
- Hyperband tend to decrease the error quicker than SMAC.
- SMAC is fluctuating more than the Hyperband

