CA04 Ensemble Models

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1. Write your observations about the Classifier’s behavior with respect to the

number of estimators.

Through my observations, I find that the overall Classifier’s behavior performs is generally becomes better and better as estimators increase. The highest accuracy peak is at the start of the model and between 400 to 500 number of estimators, with a lowest accuracy level start at the beginning of the model.

2. Is there an optimal value of the estimator within the given range?

From the results, it seems that the optimized number of estimators is around 450. That is, when there are about 450 number of estimators, the Classifier’s behavior performs best with a highest accuracy score above 0.83875.