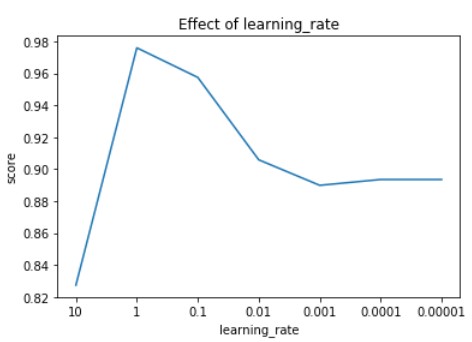
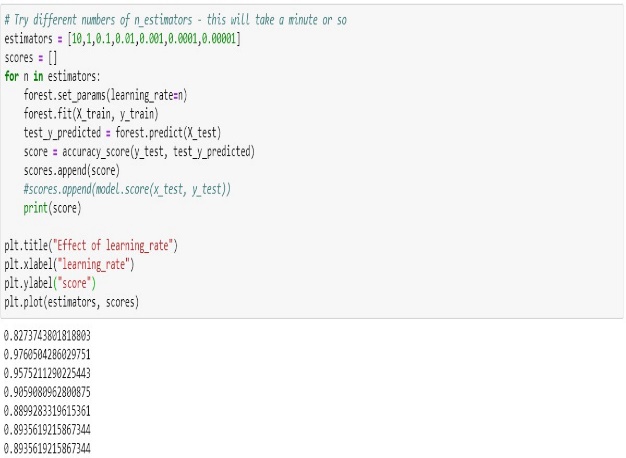
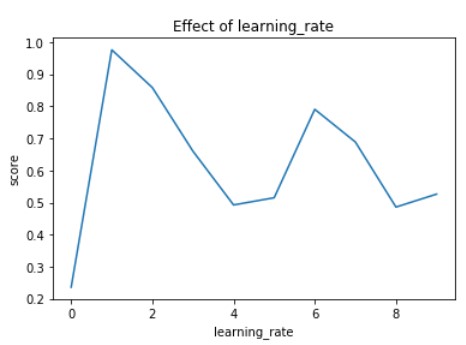
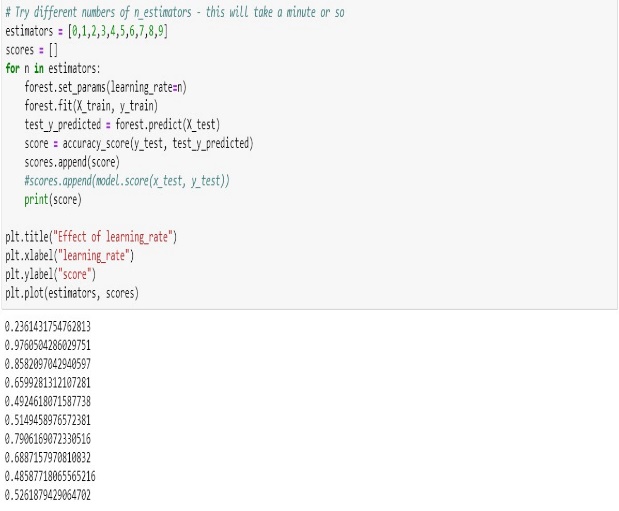
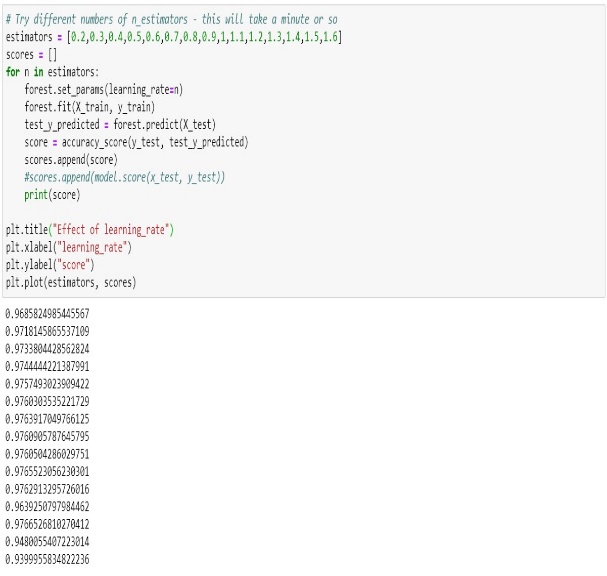
**XGBoost**

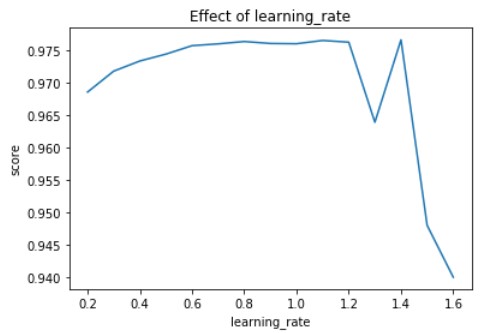
**Class = 0調參**

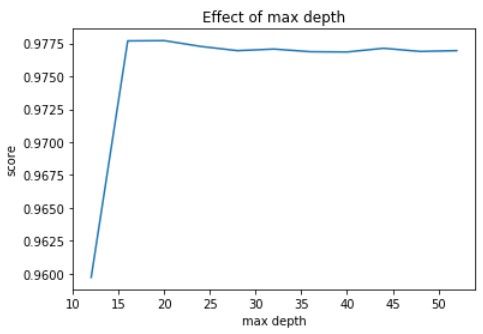
1. learning rate

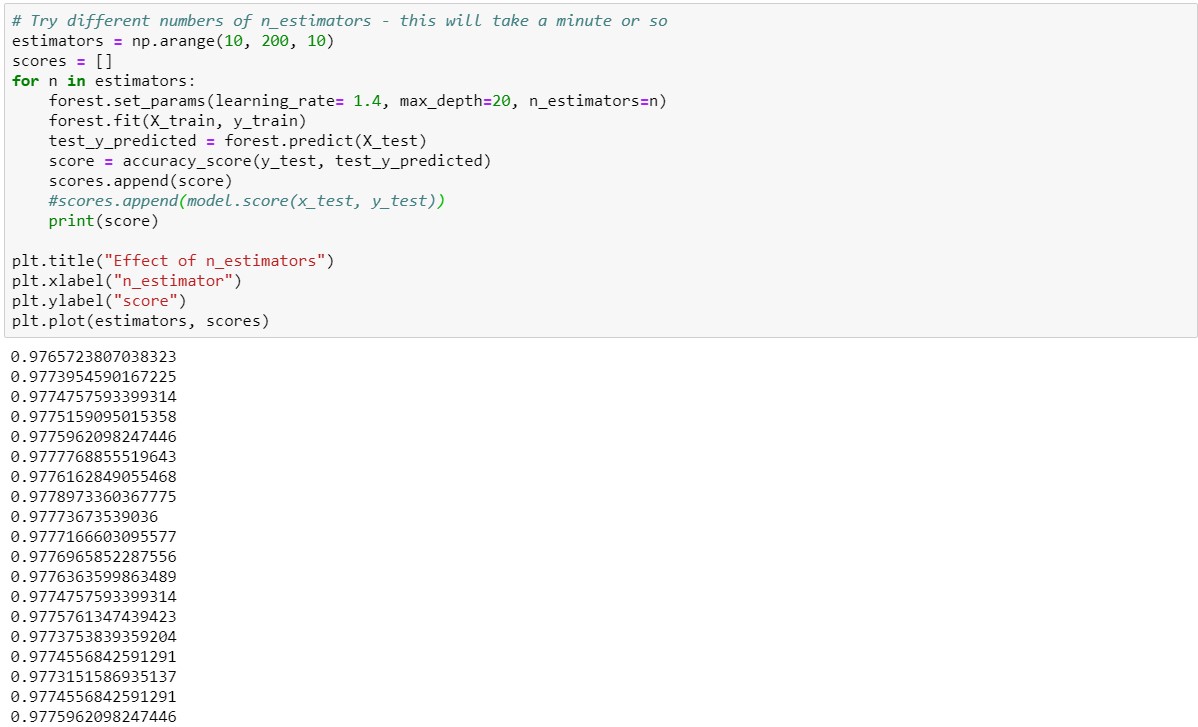
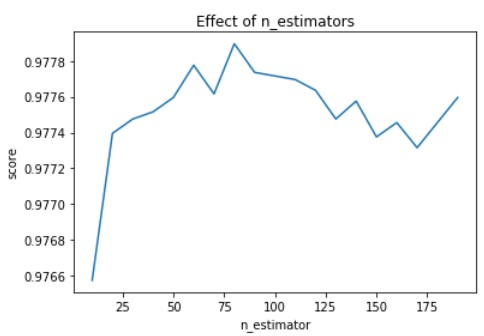
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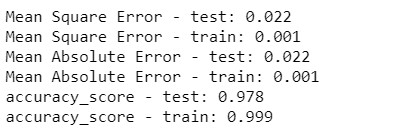
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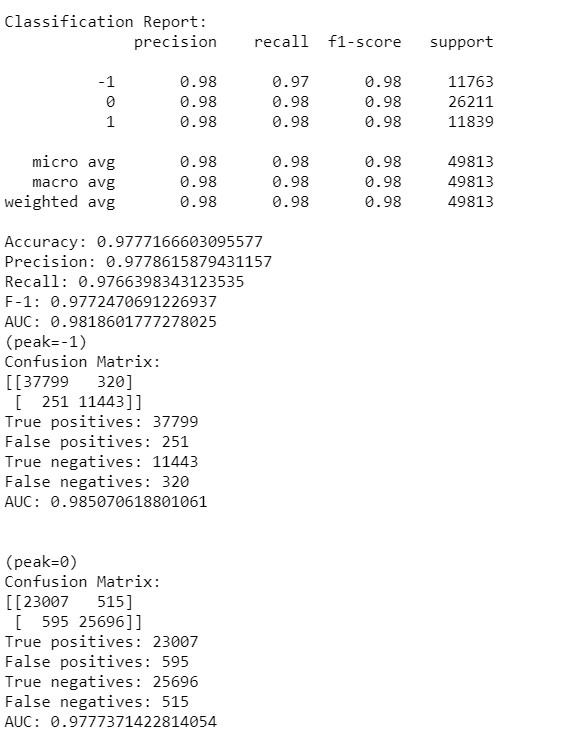
****2.max depth(learning rate = 1.4)

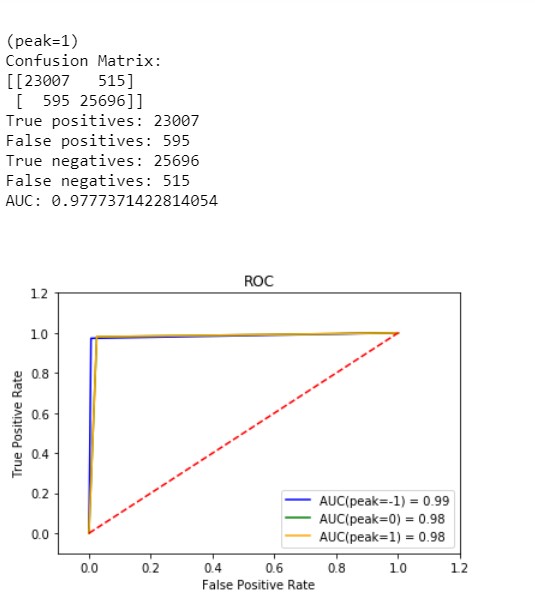
**** 3.n\_estimator (learning rate = 1.4 / max depth = 20 )

**Class = 0 調參完 (learning rate = 1.4 / max depth = 20 / n\_estimators =80 )**

****

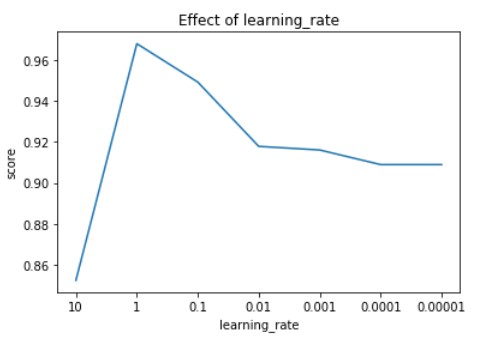
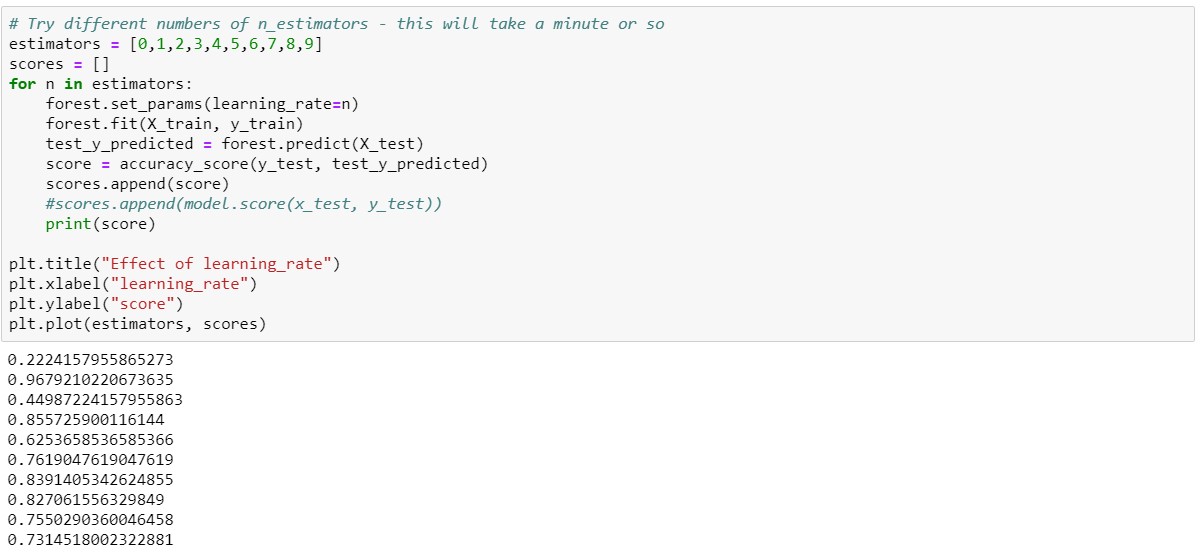
* 最佳 Accuracy：97.8%
* 最佳 MSE：2.2%

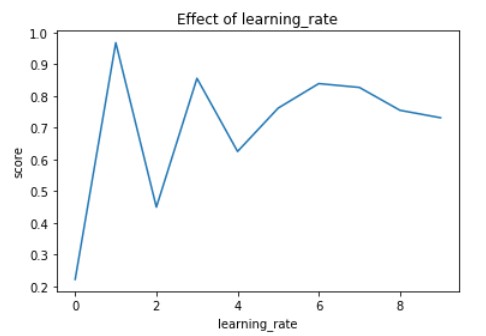
****

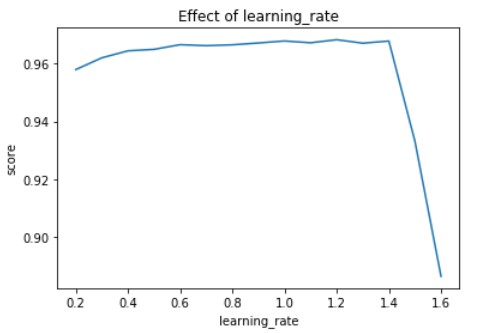
****

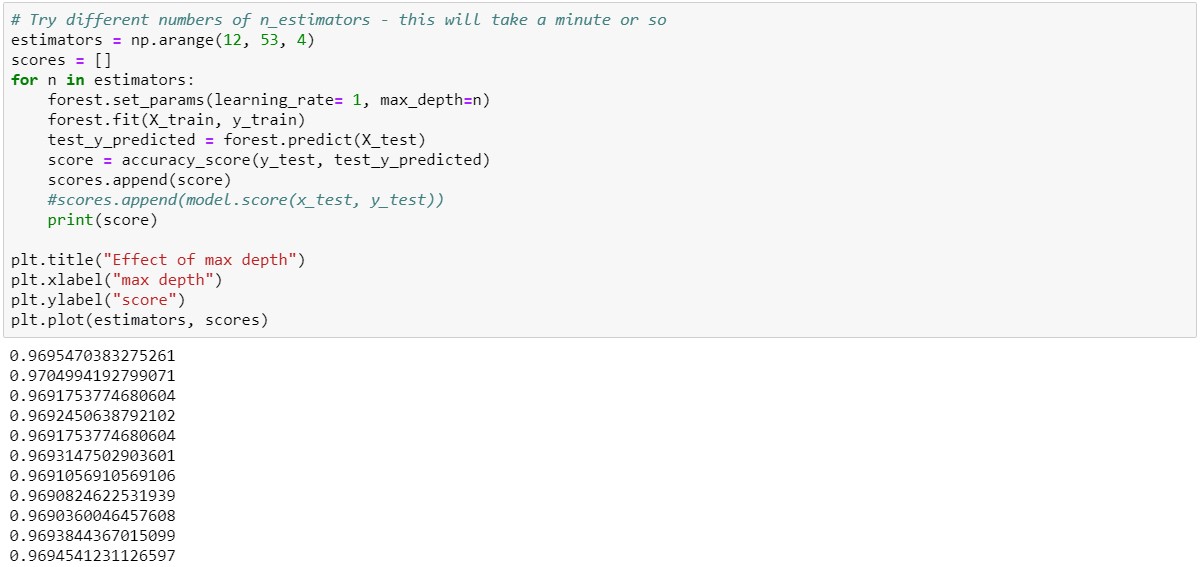
**Class = 1調參**

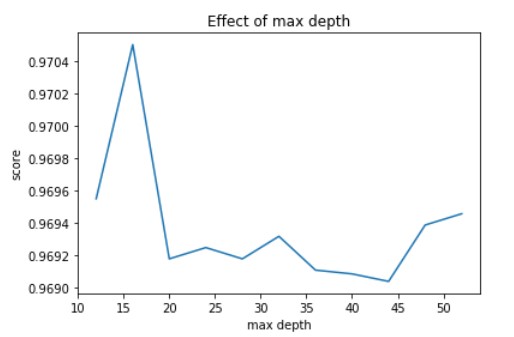
1. learning rate

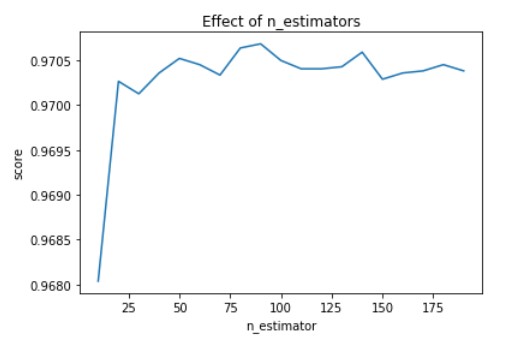
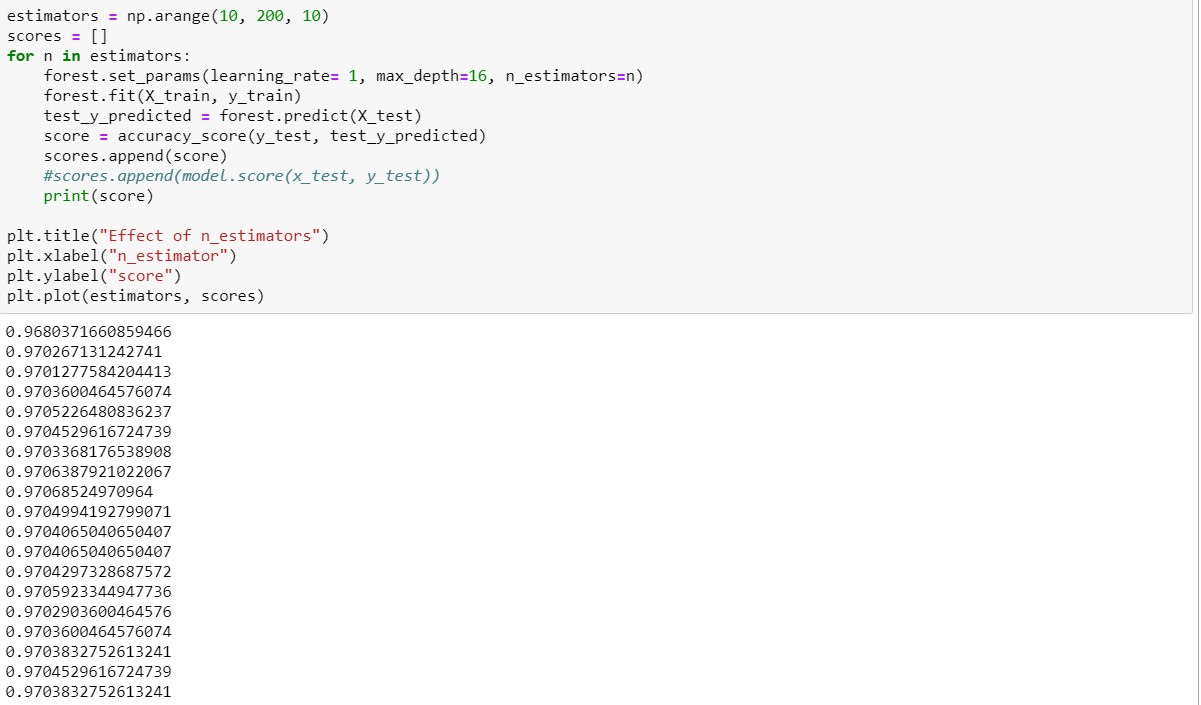
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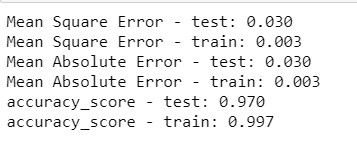
****

****2.max depth(learning rate = 1)

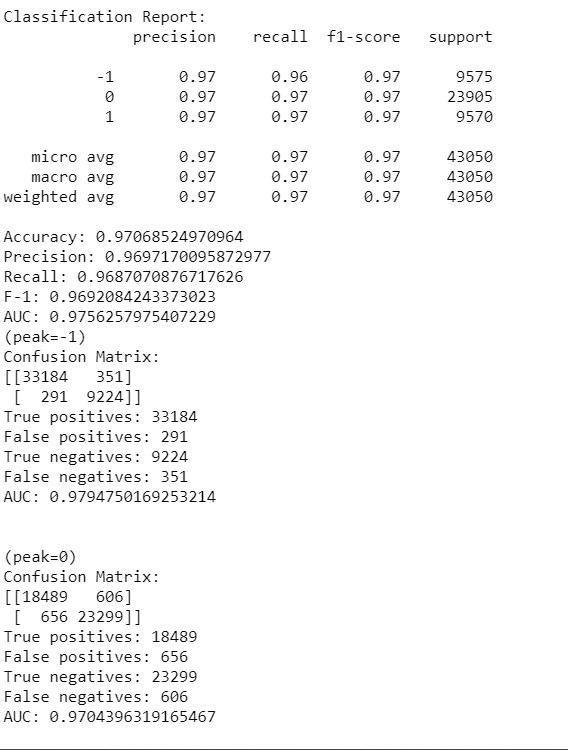
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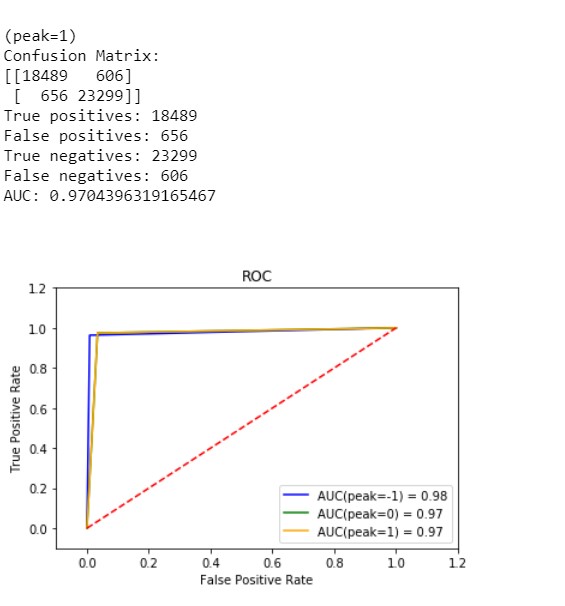
**** 3.n\_estimator (learning rate = 1 / max depth = 16 )

**Class = 1 調參完 (learning rate = 1 / max depth = 16 / n\_estimators =90 )**

****

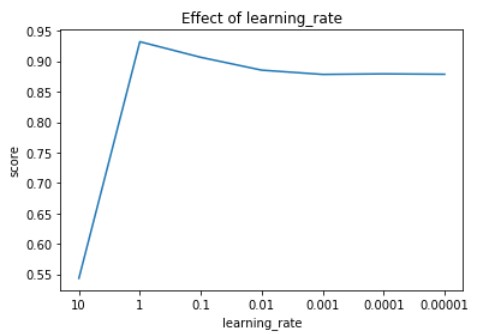
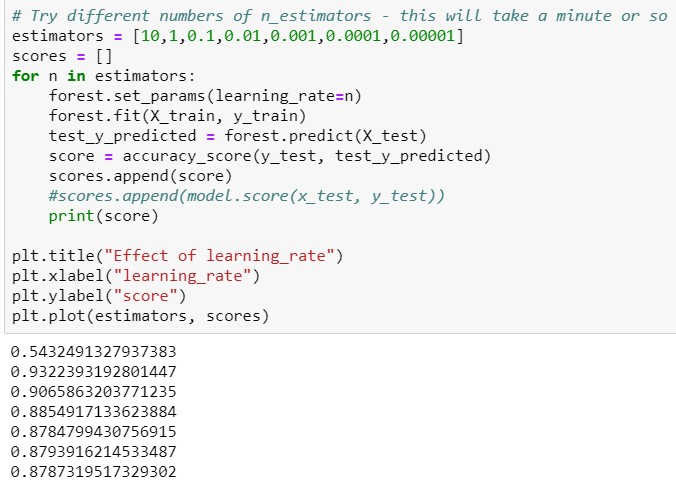
* 最佳 Accuracy：97.0%
* 最佳 MSE：3.0%

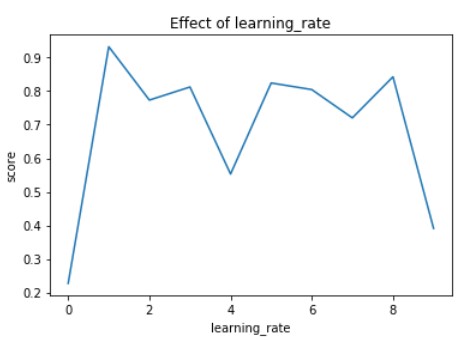
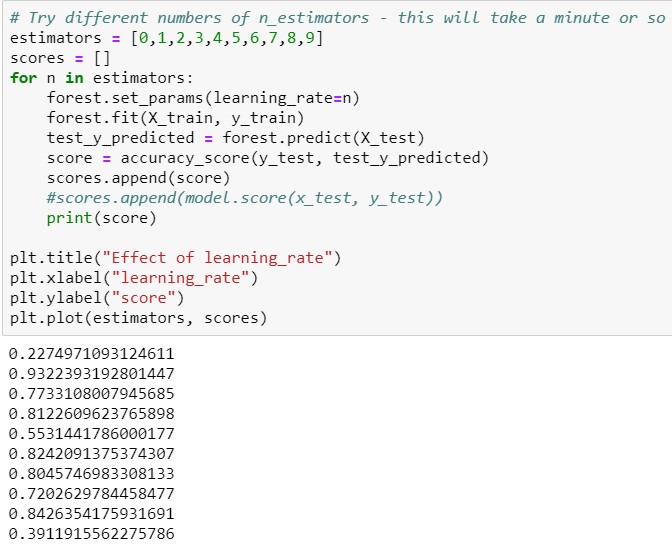
****

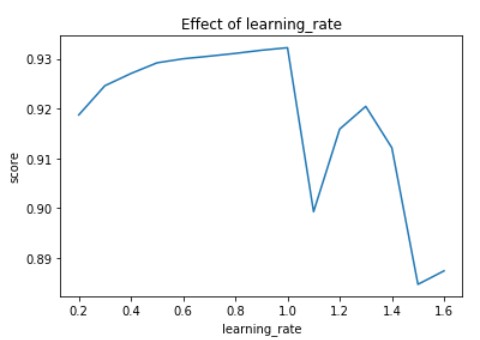
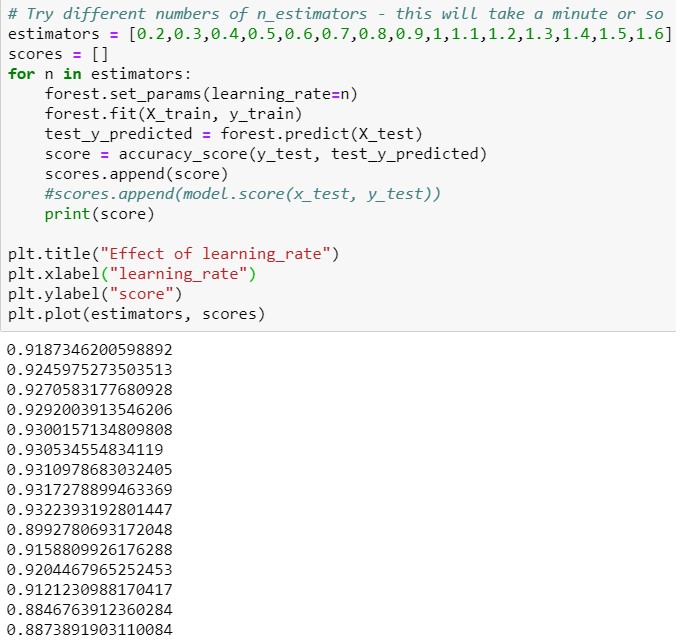
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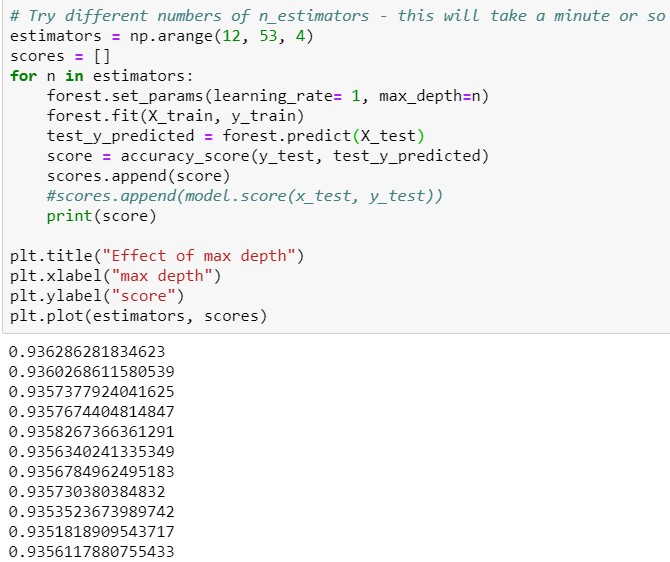
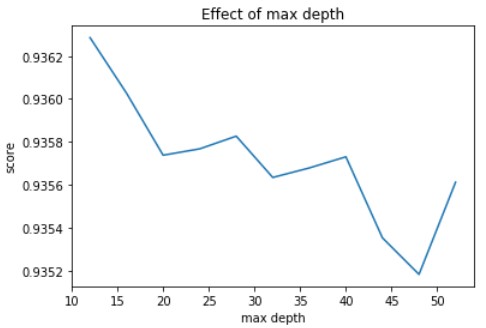
**Class = 2調參**

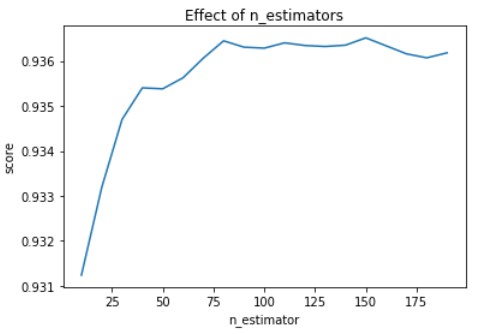
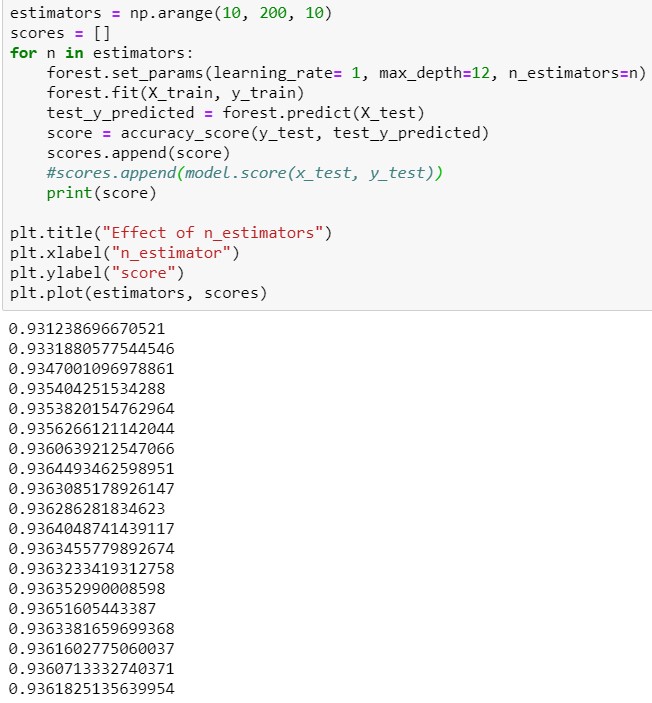
1. learning rate

****

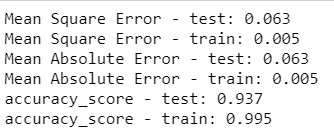
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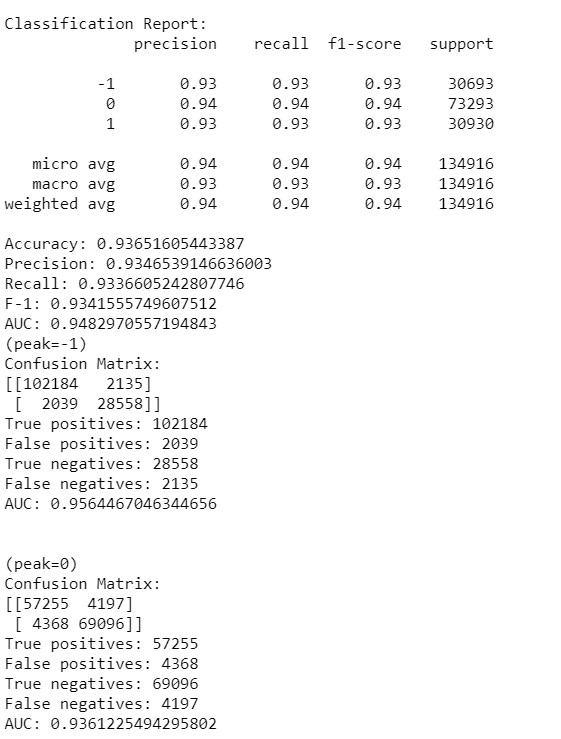
****2.max depth(learning rate = 1)

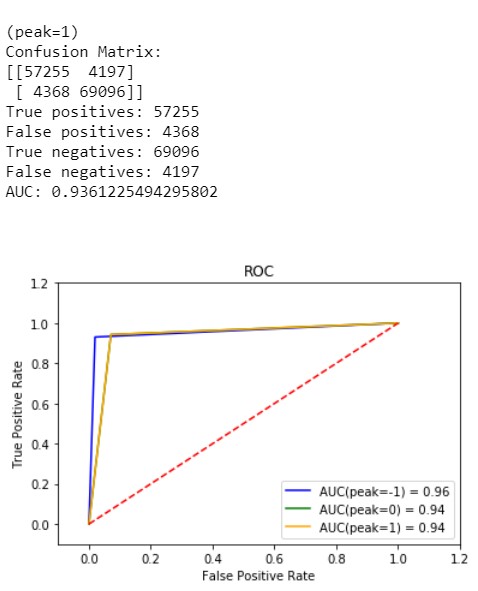
**** 3.n\_estimator (learning rate = 1 / max depth = 12 )

**Class = 0 調參完 (learning rate = 1 / max depth = 12 / n\_estimators =150 )**

****

* 最佳 Accuracy：93.7%
* 最佳 MSE：6.3%

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