

**Model for password security**

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**Note: piu modelli visti, svc 66%, forest migliore 75% con strat, prima era 64%, gradient 68% no strat, kneig 75% uguale strat, grad strat 75% uguale**

Summary

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# Problem description

Create a classifier model to determine the strength of a password. In practice, the model must establish which class the password belongs to, choosing between five classes: "Too weak", "Weak", "Moderate", "Strong", "Very strong".

## Technologies used

We used the library scikit-learn which is an efficient tool for machine learning in Python. We tried different classifier models from the library to understand which is the most efficient to choose it.

* Gradient Boosting Classifier: (ensemble)
* Random Forest Classifier: (ensemble)
* K Neighbors Classifier: (neighbors)
* SVC: (svm)