AutoGluon is a framework that automates the processing, creating, and tuning of ML models. It is part of a class of models call AutoML, which automates the machine learning workflow. In AutoGluon, the main parameters you use are: defining the target value for a dataset, and how long to train for. It will automate everything else, trying a variety of models and parameters up to the time limit. Because of its ease of use, it is a new way to easily create a baseline model. Another benefit of AutoGluon is the way it tries so many different models. Providing metrics on all of the models, you can see how different models work on your data that would otherwise not be used.

Code Example of AutoGluon

```
import pandas as pd
from autogluon.tabular import TabularPredictor

df = pd.DataFrame(
    [[1, 2, 0], [3, 4, 1], [5, 6, 0], [7, 8, 1]],
    columns=["num", "amount", "target"]
)

predictor = TabularPredictor(label="target").fit(
    train_data=df,
    time_limit=60,
    presets="best_quality"
)

# output a summary of created models
predictor.fit_summary()

# evaluate best model from hyperparameter search
performance = predictor.evaluate(df)
```

Additional Resources

- If you want to learn more about AutoGluon, we recommend going through their **documentation**.
- Wikipedia has a good overview of what **AutoML** is.
- An awesome list curated with all things AutoML: **awesome-AutoML**