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Automated Machine Learning

Lecture Notes (Optional)

Practice

✔ Practice Quiz: Week 3

6 questions

📎 Graded App Item: Train a model with Amazon SageMaker Autopilot

2h

## Week 3

Practice Quiz • 30 min

### Review Learning Objectives

✔ Submit your assignment

✔ Receive grade

To Pass 70% or higher

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✔ Congratulations! You passed!

Grade received 100%    To pass 70% or higher

Go to next item

1.

You want to create a machine learning model to classify product reviews into positive, neutral, and negative sentiments using AutoML. Which aspects of the machine learning workflow does AutoML automate? (Select all that apply)

1 / 1 point
- ✔ Hyperparameter Optimization

✔ Model Selection

✔ Feature Engineering

❑ Data Acquisition

✔ Correct

AutoML selects a number of hyperparameter configurations to explore to determine the combination of hyperparameters that improves model performance.

✔ Correct

Correct! Typically, AutoML explores a number of different algorithms and automatically selects the algorithm that best suits the machine learning problem.
2.

You are excited about AutoML capabilities and want to convince your team to use it for most of their machine learning projects. Most members of your team are new to data science.

1 / 1 point
- From the following options, what are the benefits of AutoML to bring to your team's attention? (Select all that apply)

✔ It saves time and resources.

✔ It uses best practices in data science.

✔ Correct

Correct! AutoML implements the best practices in data science.

❑ AutoML provides access to all the datasets that you would require.

✔ Extensive programming knowledge is not required to implement solutions.

✔ Correct

Correct! AutoML allows people with no machine learning expertise solve machine learning problems.

3.

Amazon SageMaker Autopilot, the Amazon SageMaker implementation of AutoML, documents results in a Candidate Generation Notebook, Data Exploration Notebook, and a set of scripts as .py Python files. Which information does the Candidate Generation Notebook specifically contain? (Select all that apply)

1 / 1 point

✔ A list of suggested data preprocessing algorithms and hyperparameter ranges for your model training and tuning.

✔ Correct

That's right! The Candidate Generation Notebook provides links to the data preprocessor Python scripts, the algorithms, and the algorithm hyperparameters selected by Autopilot.

❑ A description of what Autopilot learned about your data.

❑ Feature engineering code used to transform your data into the format that the selected algorithm expects.

✔ A Python notebook code within the .ipynb notebook file that Autopilot used to train and tune the candidate models.

✔ Correct

Correct! One advantage of Autopilot is that it provides complete transparency by providing access to the Python code used to train and tune the candidate models.

4.

True or false: Amazon SageMaker Autopilot, the Amazon SageMaker implementation of AutoML, requires no human intervention for the tuning and model-selection process when finding the best candidate model.

1 / 1 point

✔ True

❑ False

Try again

Your grade  
100%

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