Practical Data Science Specialization

Correct! Building and tuning a machine learning model requires numerous iterations and experiments, which can be very time and resource consuming. AutoML speeds up this process and allows for quick iterations.

✓ Correct

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

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 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 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. 	
Feature engineering code used to transform your data into the format that the selected algorithm expects.	
A description of what Autopilot learned about your data.	
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. False	1 / 1 point
True	
5. A data scientist is asked to train a text classification model using AutoML. As part of the data preprocessing process, the AutoML process identifies and ignores "stop words". What are stop words?	1/1 point
○ Words that rarely appear	
Words that appear at the end of the sentence	
Words that are too long Words that are too long	
Correct Correct! Stop words are low-value words that appear frequently such as "is", "the", "for", etc. Please refer to lectures on Week 3: AutoML with Amazon SageMaker Autopilot for a refresh.	
6. After training a sentiment analysis model with Amazon SageMaker Autopilot, the user decides to deploy their model. In order to improve the customer experience and support, they would like to immediately detect reviews with negative sentiment when the review is posted. What is the best model-hosting option to satisfy the requirement to detect the negative review immediately?	1/1 point
Customer hosting	
Batch inference hosting	
Real-time hosting Any of the above	