Google has one of the largest machine learning stacks in the industry, currently centering on its Google Cloud AI and Machine Learning Platform.

Google is one of the top sources of tools and infrastructure for developers, data scientists, and machine learning experts, but historically Google AI hasn’t been all that attractive to business analysts who lack serious data science or programming backgrounds.

AutoML Tables is a little different, in that it automates the process a data scientist would use to find the best machine learning model for a tabular data set.

The Google Cloud AutoML services provide customized deep neural networks for language pair translation, text classification, object detection, image classification, and video object classification and tracking. They require tagged data for training, but don’t require significant knowledge of deep learning, transfer learning, or programming.

Google Cloud AutoML customizes Google’s battle-tested, high-accuracy deep neural networks for your tagged data.

Rather than starting from scratch when training models from your data, AutoML implements automatic deep transfer learning and neural architecture search for language pair translation and the other services listed above.

If they don’t do what you need, Google Cloud AutoML helps you to create a model that does, without requiring that you know how to perform transfer learning or how to design neural networks.

The usual data science process for many regression and classification problems is to create a table of data for training, clean and condition the data, perform feature engineering, and try to train all of the appropriate models on the transformed table, including a step to optimize the best models’ hyperparameters.

AutoML Tables automatically searches through Google’s model zoo for structured data to find the best model for your needs, ranging from linear/logistic regression models for simpler data sets to advanced deep, ensemble, and architecture-search methods for larger, more complex ones.

The Google Cloud Translation API can translate over a hundred language pairs, can auto-detect the source language if you don’t specify it, and comes in three flavors: Basic, Advanced, and Media Translation.