AutoKeras Requirements

# Saving the model files

There are three basic function we hope to achieve with the output files that can be generated: save intermediate training result, freeze graphs for production, convert to another format such as Tflite.

## Intermediate result

The output is what is known as a saved model. The following two formats should be supported.

* Checkpoint: multiple files that capture values for parameters, filters and weights. It is associated with source code. Create them with each epoch.
* Saved model format. This is a .pb file that contains weights and computation. This action is performed with tf.saved\_model
* Keras format. This is a HDF5 file that contains model architecture, model weights and state of the optimizer. From this models can also be instantiated.

## Frozen graph

The output is a file that contains all necessary elements to perform inference: graph, weights. Typically this is done by converting

## Conversion to another file format

### TensorFlow Lite

Converting a model for use with TensorFlow Lite is done with either Tflite or toco.