

A comparison of Edge AI Frameworks

This list is not exhaustive and is provided as a summary of some popular available options (last updated – March 2024)

Feature	Framework			
	Keras	MxNet	PyTorch (Inc. Caffe2)	TensorFlow (Inc. TensorFlow Lite)
Developer/Author	Francois Chollet	Apache Software Foundation	Facebook	Google
Open Source	Yes (MIT)	Yes (Apache 2.0)	Yes (BSD)	Yes (Apache 2.0)
Operating Systems/Platforms	iOS, Android	Linux, macOS, Windows	Linux, macOS, Windows	Linux, macOS, Windows, Android
Network Types Supported	CNN, LSTM, GRU	CNN, RNN	CNN, RNN	CNN, RNN
Written In	Python	C++, Python, R, Java, Julia, Scala, Go, Perl	Python, C++	Python, C/C++
CUDA GPU Support	✓	✓	✓	✓
Interfaces (Native)	Python	Python, C++, Julia, JavaScript, Scala, Perl, Clojure	Python, C++, Julia	Python, Java, JavaScript, C++, Go, Swift
Differentiating Features	<ul style="list-style-type: none"> • Required underlying AI framework (Typically TensorFlow) • User Friendly • Good documentation • Widespread support 	<ul style="list-style-type: none"> • Easy to use • Good performance • Used by AWS • Flexible 	<ul style="list-style-type: none"> • Limited documentation • Many pretrained models • Easy to learn • Large community 	<ul style="list-style-type: none"> • Slow compared to alternatives • Fast compile times • Large Footprint • TensorFlow Lite targeted at mobile platform