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| TensorFlow | OpenCV | Apache Edgent | Apache MX Net |
| * **TensorFlow** is an open-source library for numerical computation and large-scale machine learning * Created by the Google Brain team and initially released to the public in 2015 * TensorFlow bundles together a slew of machine learning and deep learning models and algorithms * User Friendly * TensorFlow also has a broad library of pre-trained models * Tensor board for monitoring and visualization. * Community support. * You can use TensorFlow Lite to run TensorFlow models on mobile devices * Tensorflow.js lets you to run real-time deep learning models in the browser using JavaScript. * Debugging can be challenging * TensorFlow is a bit slow compared to frameworks like MxNet | * **Open Source Computer Vision Library – OpenCV** * contains built-in classes and methods that can be used for image and video processing and analyses * Most of its built-in machine learning algorithms are built for its primary purpose which is computer vision * Toolkit for computer vision * Face recognition * Automated inspection and surveillance * Vehicle counting on highways along with their speeds | * Apache Edgent is an open source programming model and runtime for analytics on edge devices. * Apache Edgent application uses analytics to determine when data needs to be sent to a back-end system for further analysis, action, or storage. * Edgent is a stream processing programming model and lightweight runtime to execute analytics at devices on the edge or at the gateway. | * Founded by the Apache Software Foundation * MXNet supports a wide range of languages like JavaScript, Python, and C++ * MXNet is also supported by Amazon Web Services to build deep learning models * Efficient, scalable, and fast. * Supported by all major platforms. * Provides GPU support, along with multi-GPU mode. * Support for programming languages like Scala, R, Python, C++, and JavaScript. * Easy model serving and high-performance API. * Improvements, bug fixes, and other features take longer due to a lack of major community support * Despite being widely used by many organizations in the tech industry, MxNet is not as popular as Tensorflow. |