

Next Generation Machine Learning for Mobile and Embedded Platforms

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Modern day machine learning systems typically involve development of large networks/models that require deployment of huge cloud servers for the compute capacity which have big privacy implications and result in high costs. Small micro-controller powered devices are being overlooked for ML applications as achieving high model accuracies within the memory and latency constraints is a challenge. With the right set of tools and algorithms, this need not be the case. The technology presented here discusses ways to leverage the use of these devices that occupy our world in the billions and make them intelligent with light-weight machine learning. A platform has been developed that enables development of models optimized for these low power devices. This talk will discuss some exemplary commercial uses of this technology and the processes and suite of tools that are used to deliver new interactive experiences to hundreds of millions of end users.