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Interconnect for Machine Learning

ML = INTERCONNECT + NEURONS + SOFTWARE

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Challenges: Determinism, Visibility, Controllability



Conclusion

- ML today is not particularly intelligent, but it is clever and improving
 - CNNs being deployed in automotive and data center acceleration SoCs
 - Eventually majority of complex SoCs will contain machine learning sections
 - A simple continuation of the exponential increasing processing performance trend will not break ML out
 of the scope of applications that it can do well today
 - CNNs are non-linear curve fitting engines with a functionality ceiling
- New architectures and approaches needed for next generation of machine learning problems to deliver real AI solutions
 - Interconnect technology innovation is key to AI architecture evolution

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