



BUILD YOUR MACHINE LEARNING MODEL ON EDGE WITH REACT NATIVE











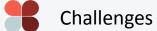
AGENDA

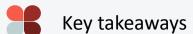






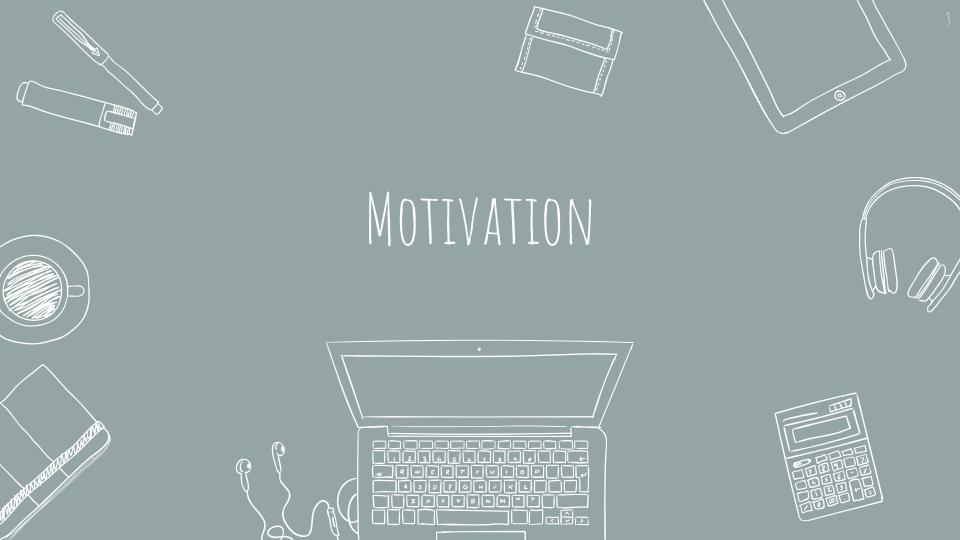






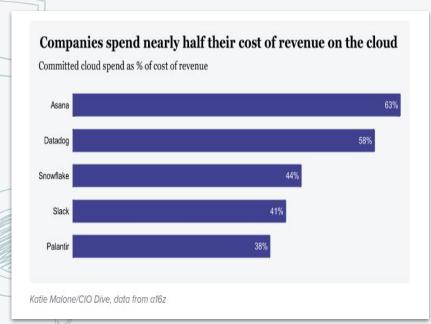




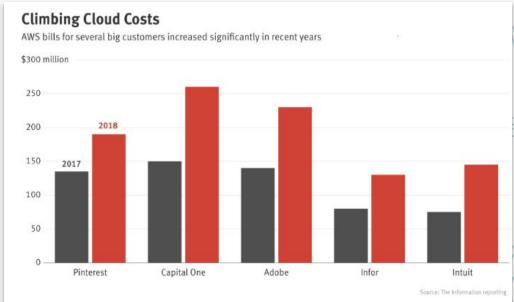




DATA FROM A162 2022

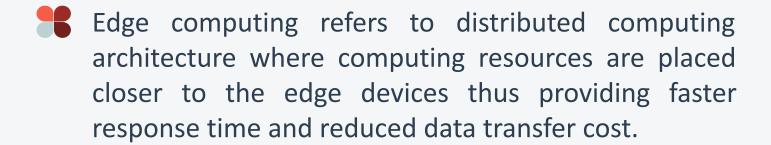


DATA FROM THEINFORMATION. COM





















Any technique that enables computers to mimic human behavior



MACHINE LEARNING

Ability to learn without explicitly being programmed

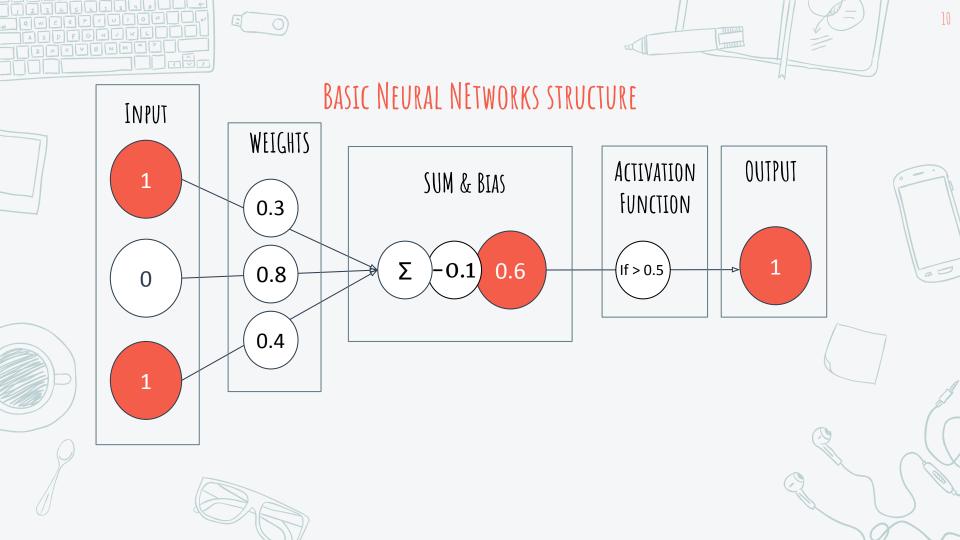


DEEP LEARNING

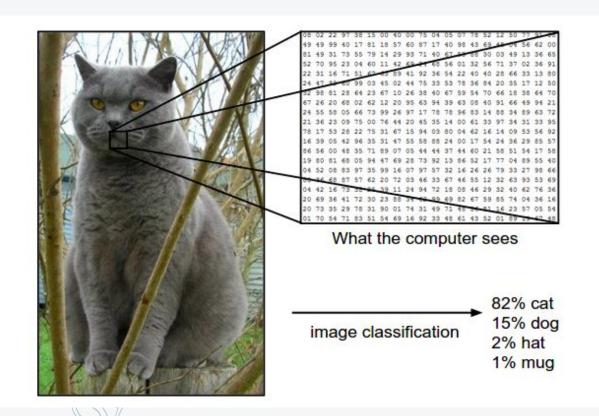
Extract patterns from data using neural networks

3 1 3 5 6 7 1 4 5 9 2 3

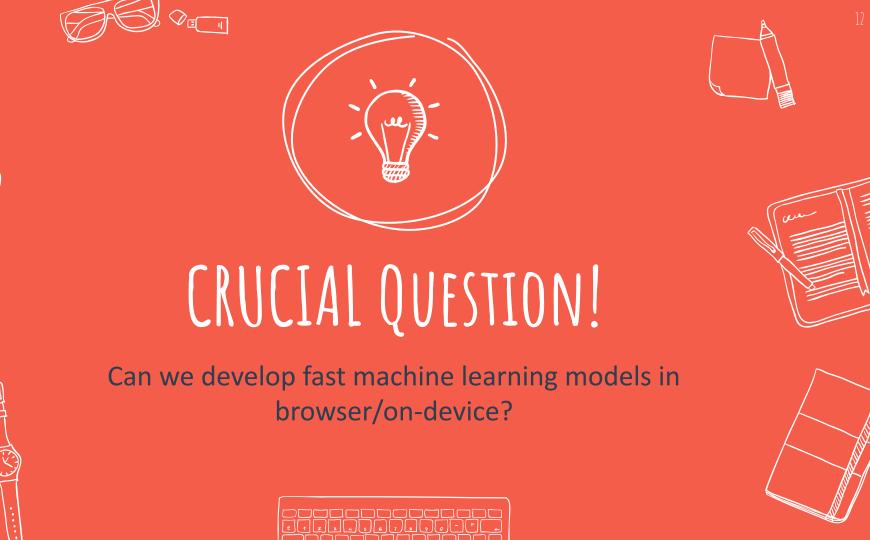
В Α

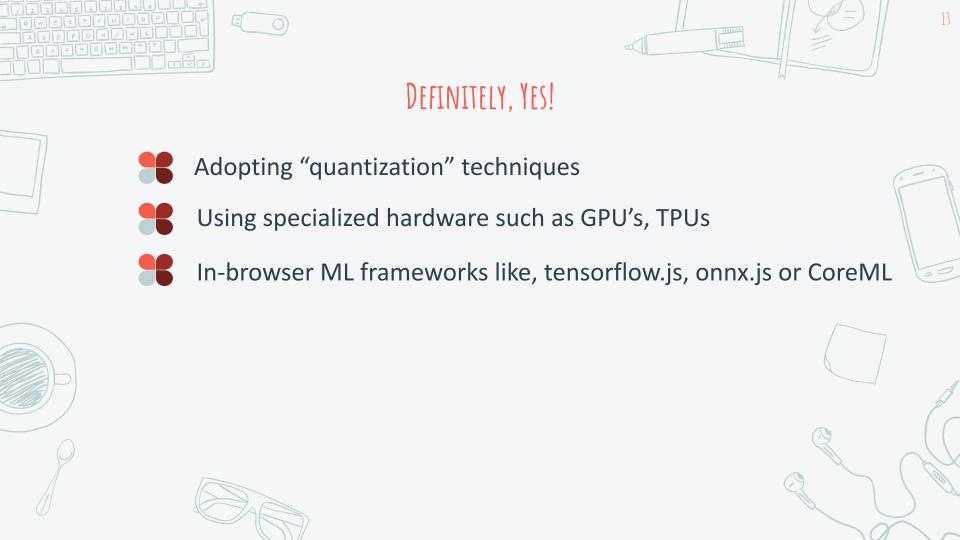


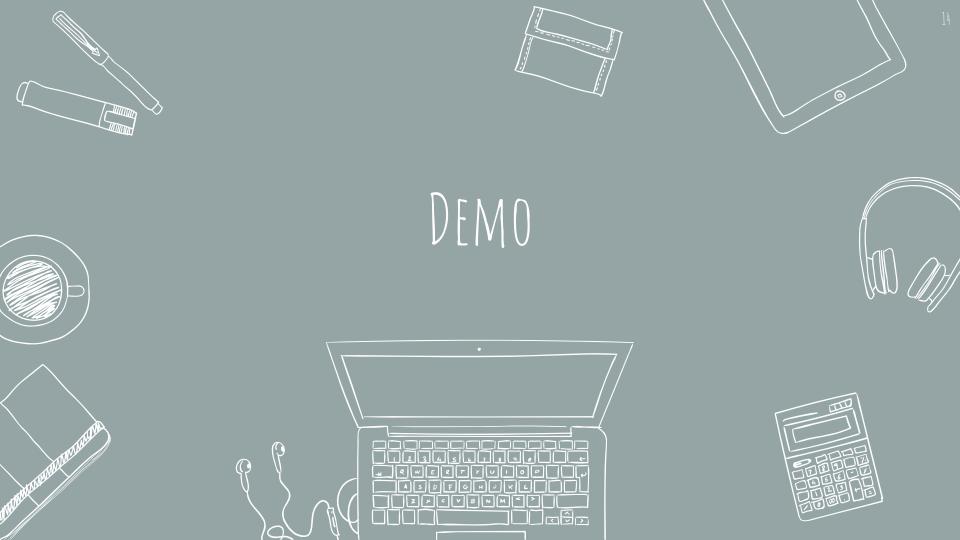




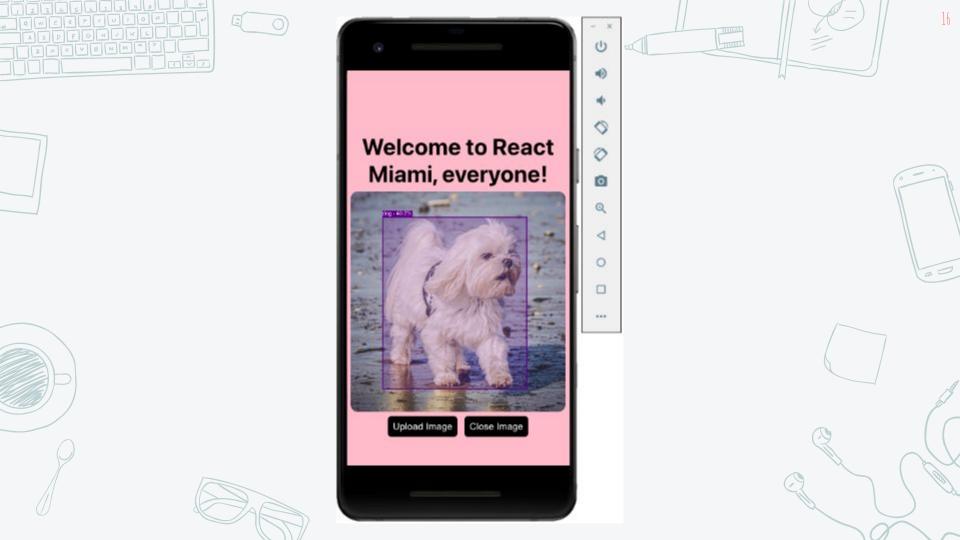
Img Src: KDnuggets Blog

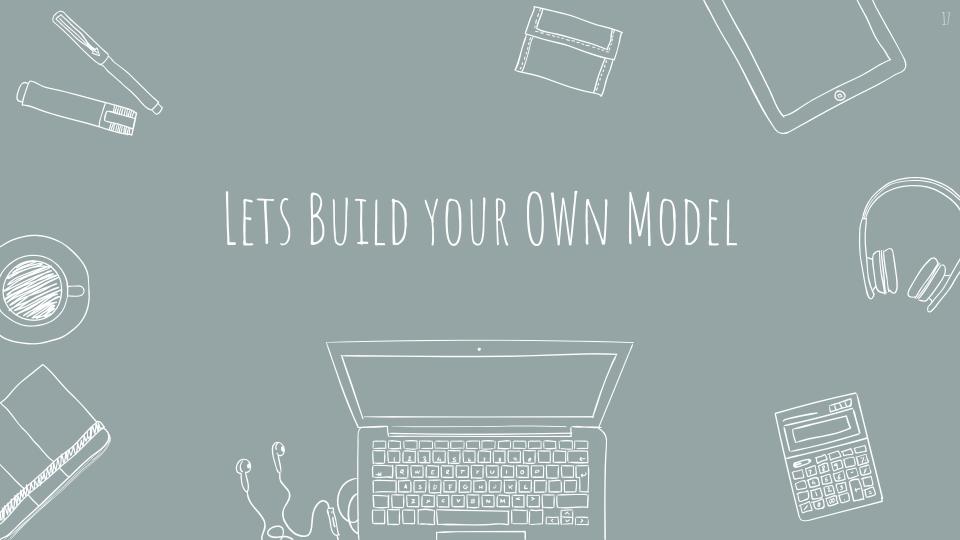


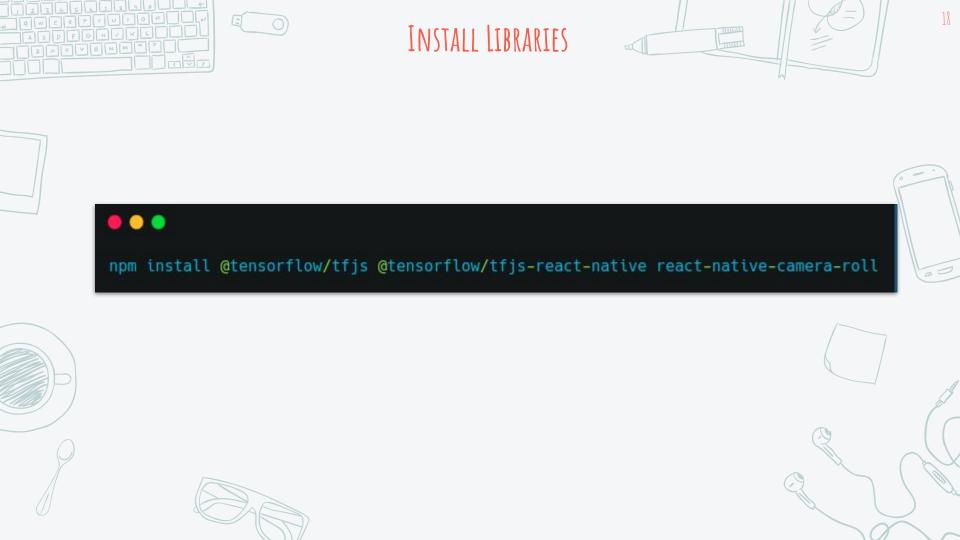












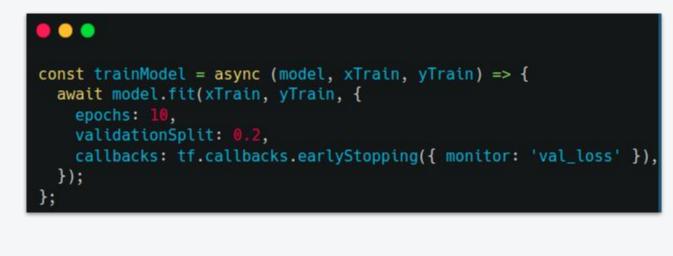
}));

});

model.compile({

return model;















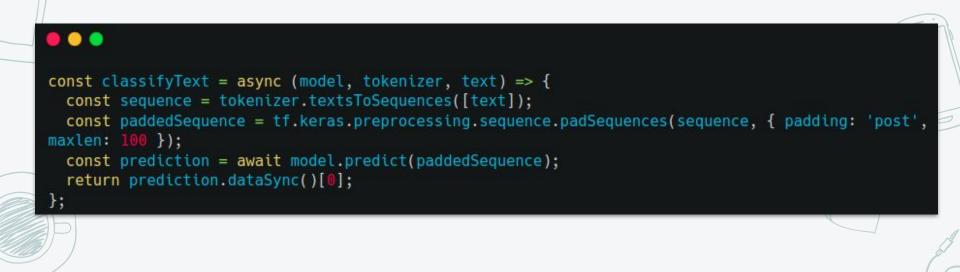


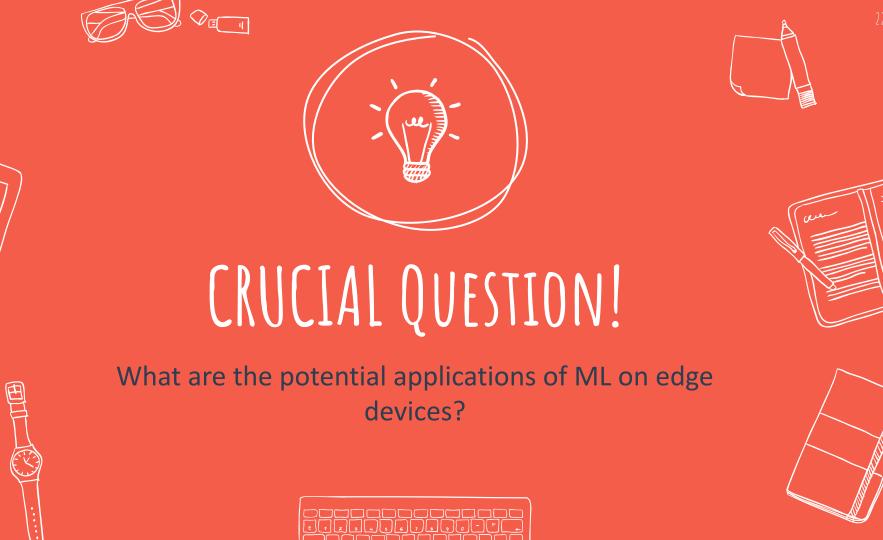






MAKE PREDICTIONS USING YOUR MODEL

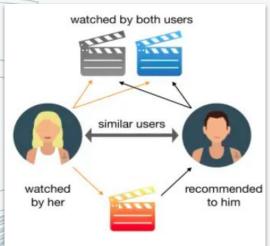


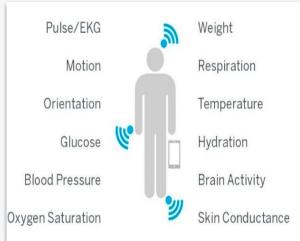


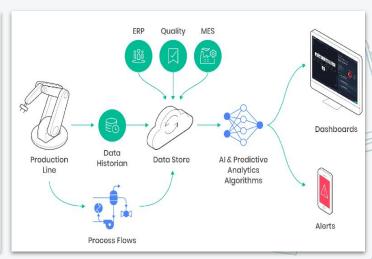




USE CASES OF: MACHINE LEARNING ON EDGE





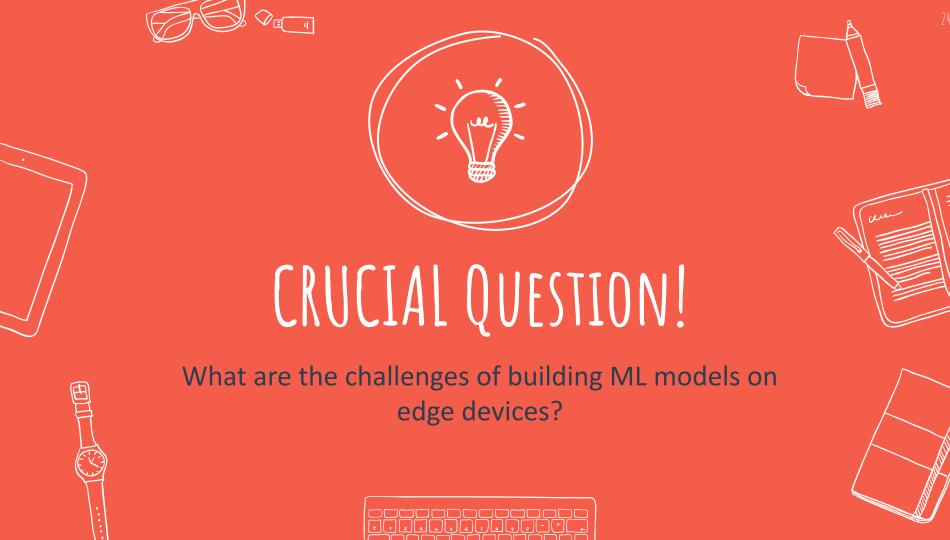


Recommendation Systems

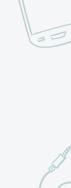
Patient Monitoring Systems

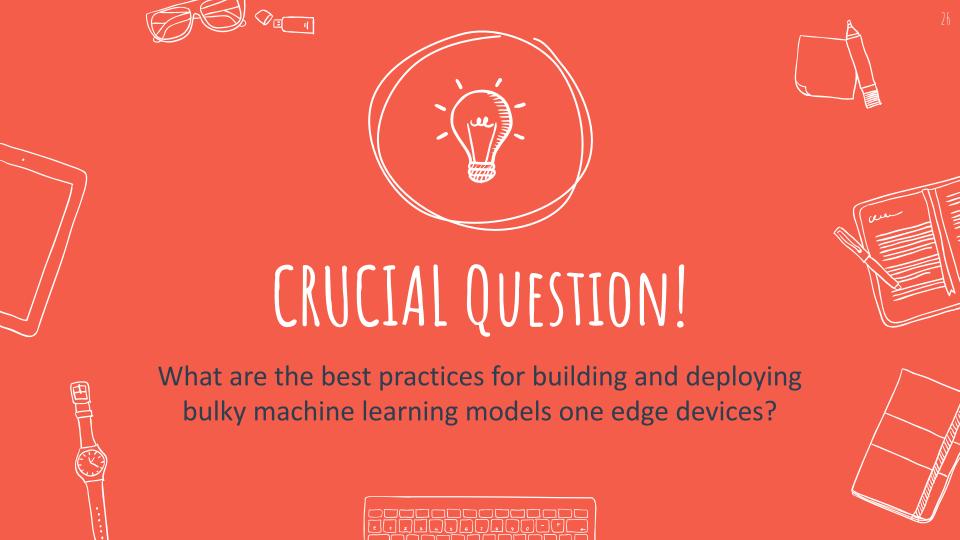
Predictive Maintenance

Img Src: Google Photos











BEST PRACTICES





Optimize your model's runtime using quantization or pruning techniques



Find the right params for your inference pipeline be it it batch size, epochs etc



Benchmark your end-to-end pipeline/application to figure out any bottlenecks





Use concurrent or multiple processes to revamp your code for optimization



Use mobile-friendly frameworks such as pytorch lite, or tensorflow lite



Avoid redundant computations via data-reuse among multiple tasks









THANK YOU!

Feel free to shoot me any questions, or just DM for a quick hi!

