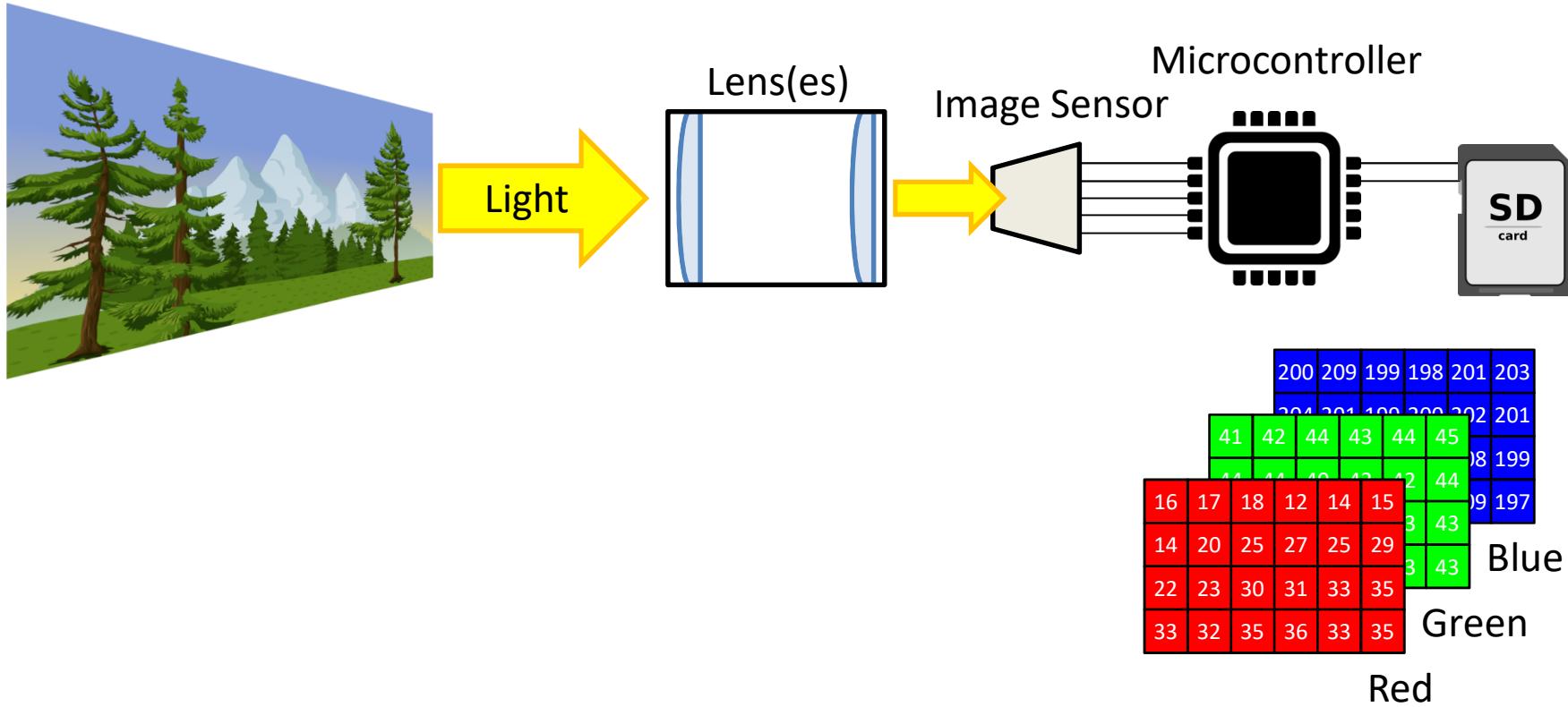


Computer Vision with Embedded Machine Learning

What is Computer Vision?



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"Thermal image of a building", by Marco Verch (CC BY 2.0)

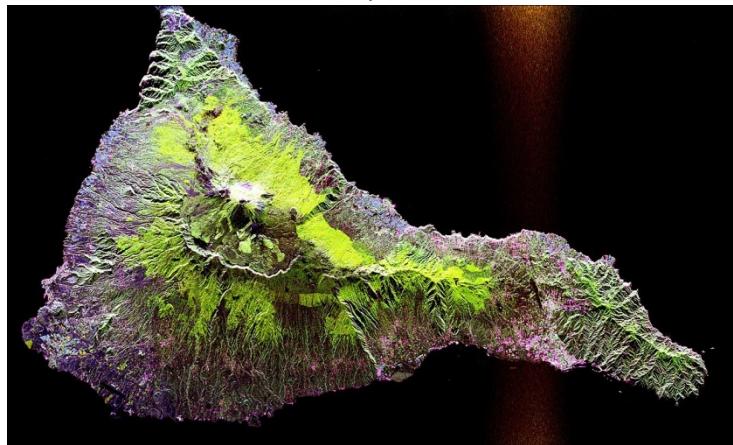
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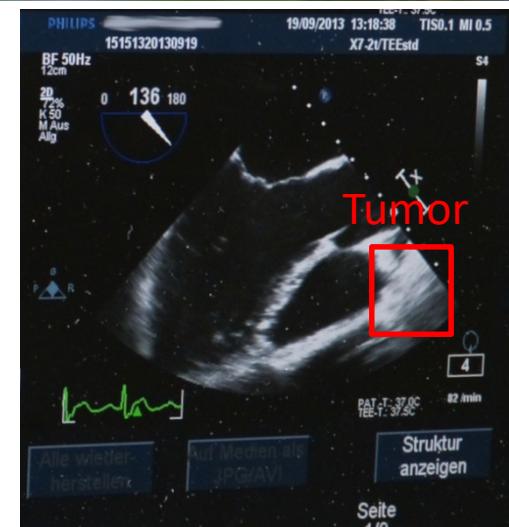
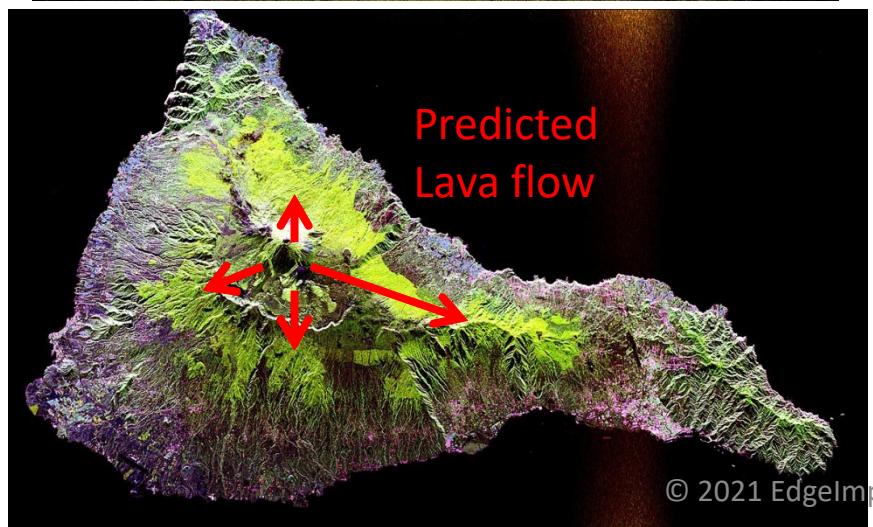
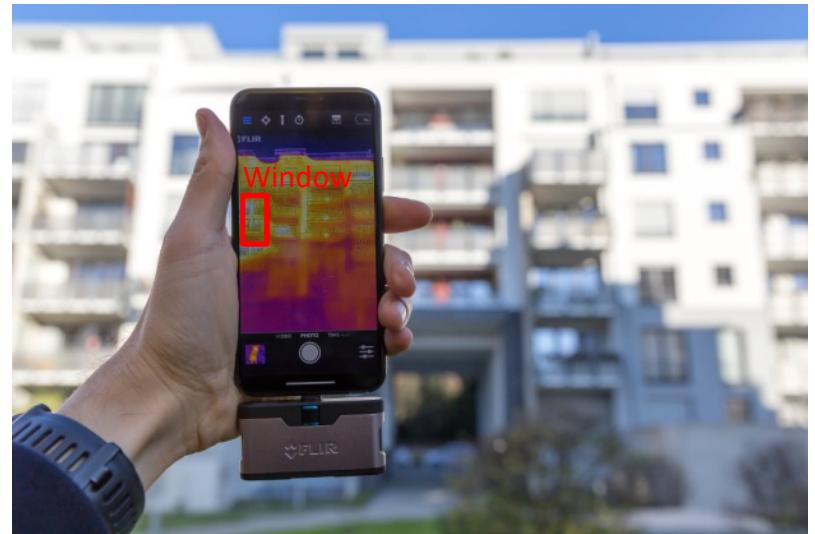
SIR-C/X-SAR imaging radar
on Space Shuttle Endeavour

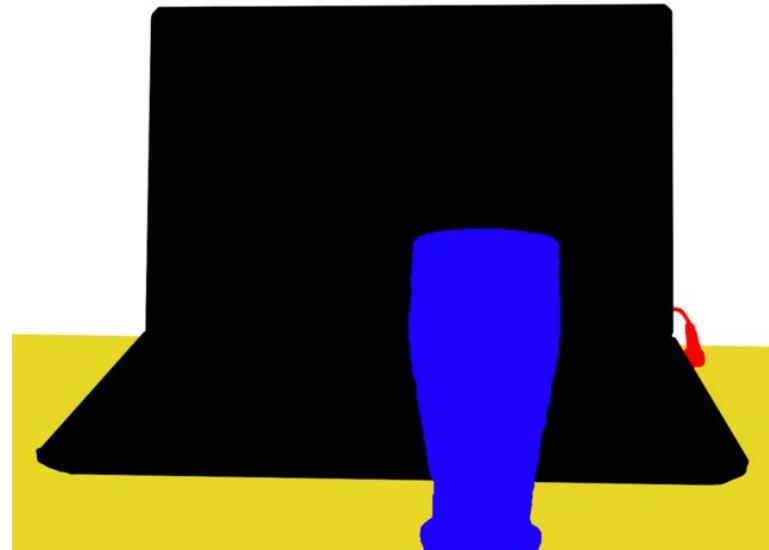


Teide volcano

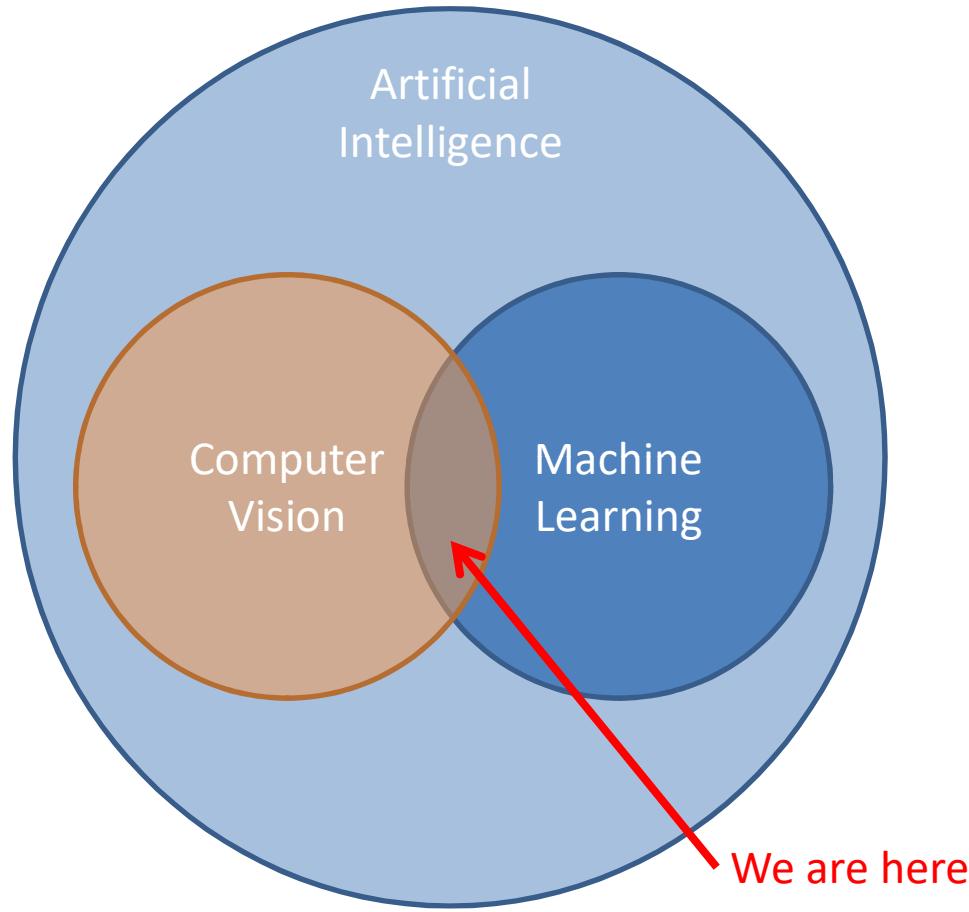


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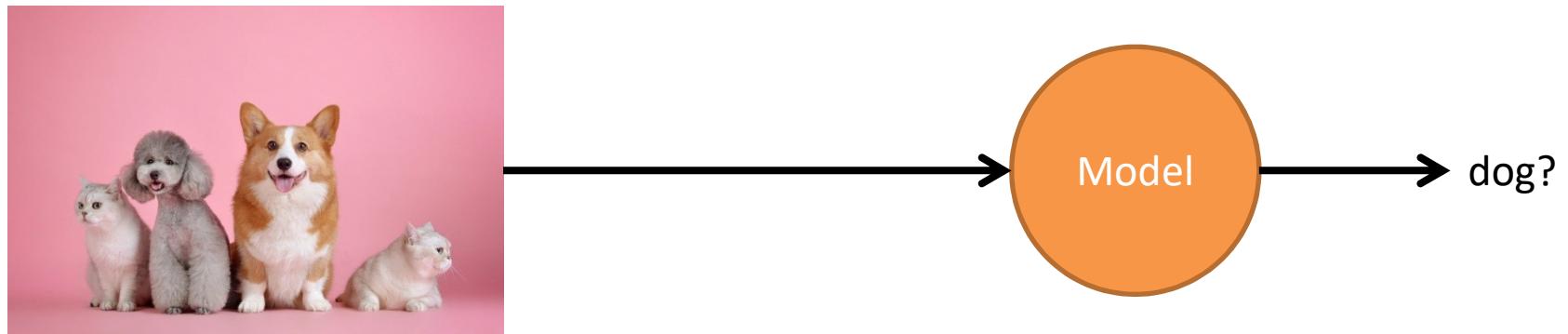
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Image Classification

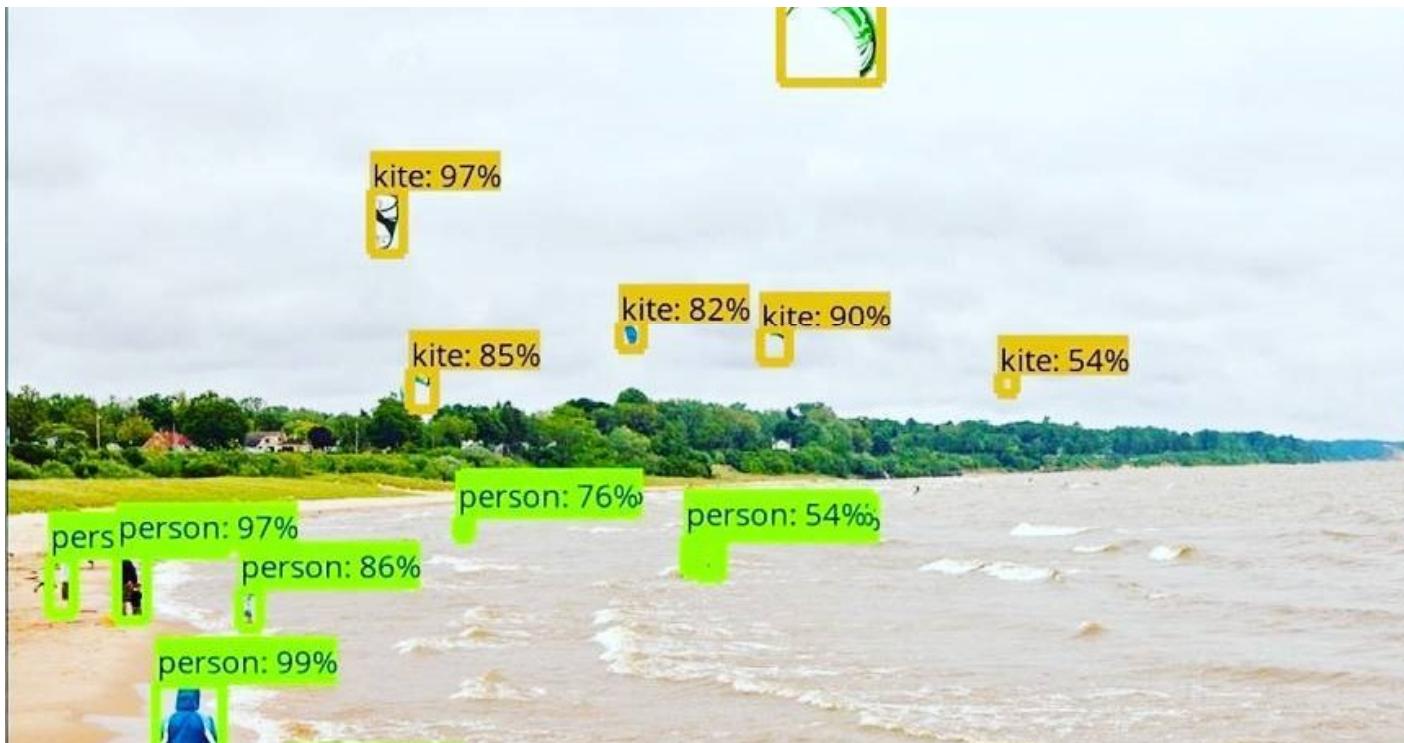


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Image Classification



Object Detection



"The future of computer vision," by ShashiBellamkonda (CC BY 2.0)

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$$240 \times 240 \times 8 \times 30 \times 1 = 13.824 \text{ Mbps}$$

Number of pixels / Num. cameras
Bits per pixel Frames per second



“OpenMV H7 Camera”, by SparkFun Electronics (CC BY 2.0)

$$1 \times 30 \times 1 = 30 \text{ bps}$$

/ Num. cameras \

Person or Frames per second
not person

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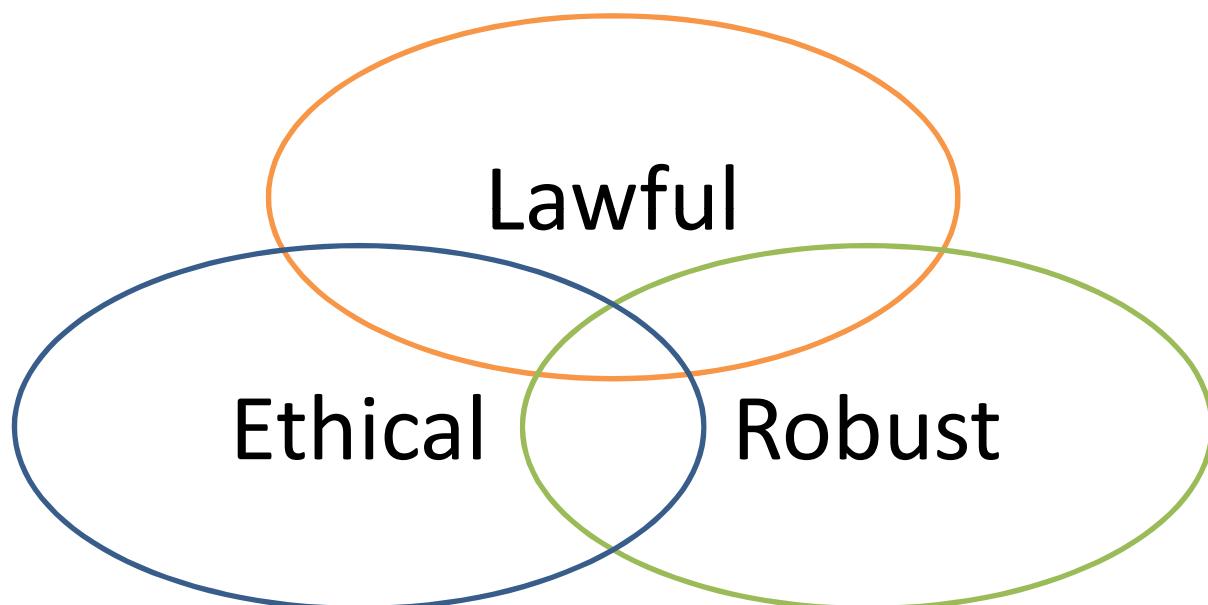
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"Hands-free Driving" by Steve Jurvetson (CC BY 2.0)



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Trust in AI



Trust in AI



Trust in AI



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