

MaViS

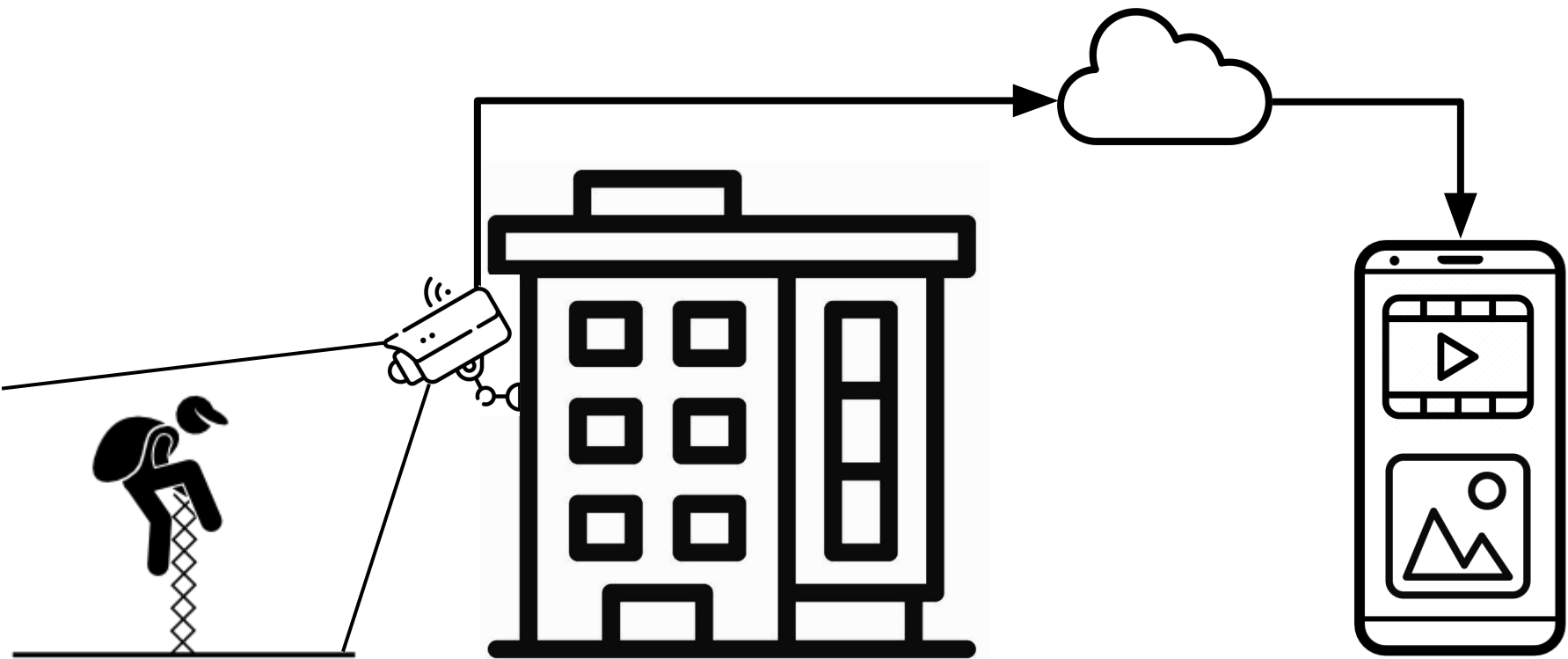
Machine **V**ision **S**ecurity System

Jason Deglint, PhD

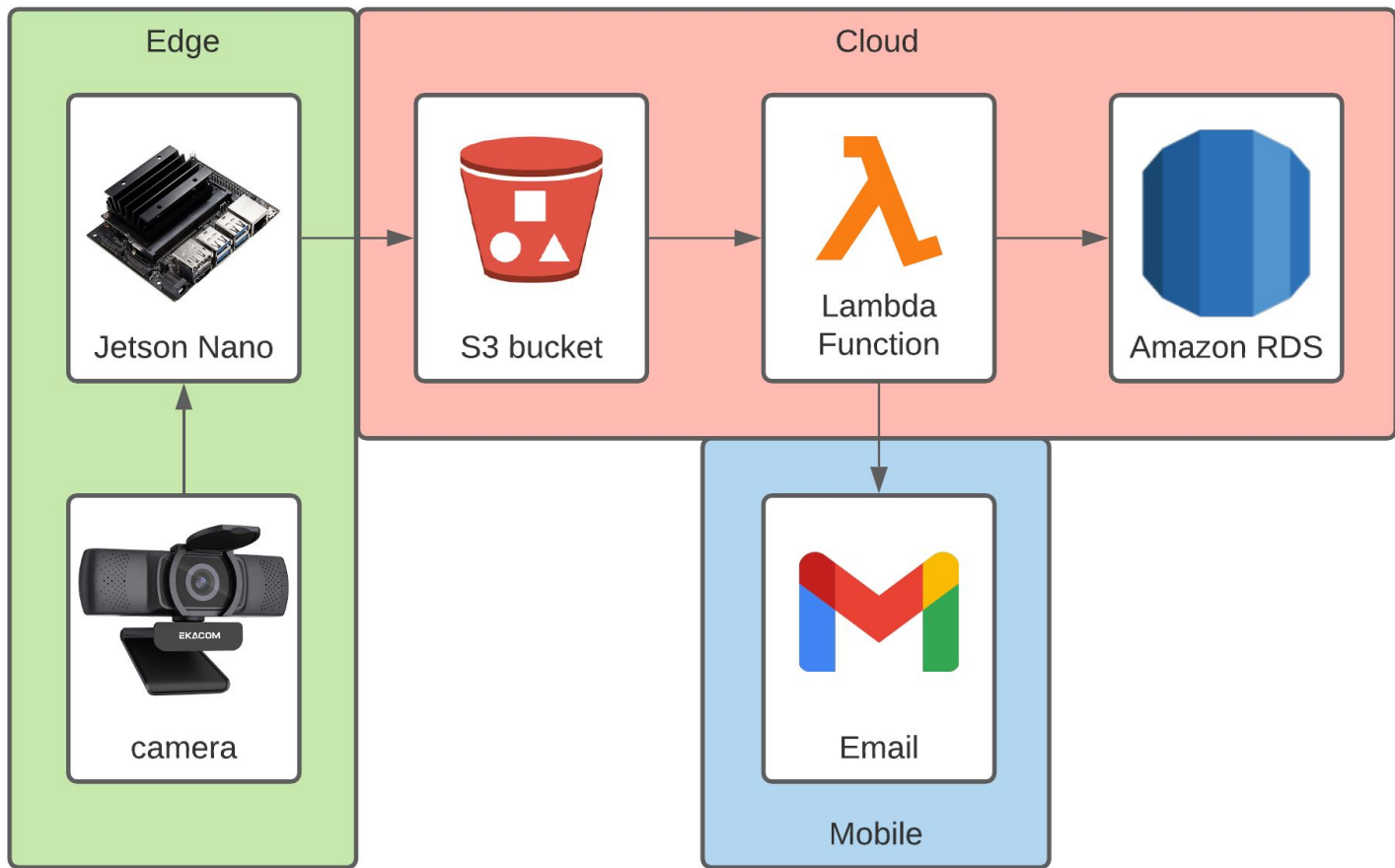
&

Juan Park, MASc

May 14, 2021



Demo



Language



MaViS

Machine Vision Security System

Streaming Analytics Toolkit



Edge Device



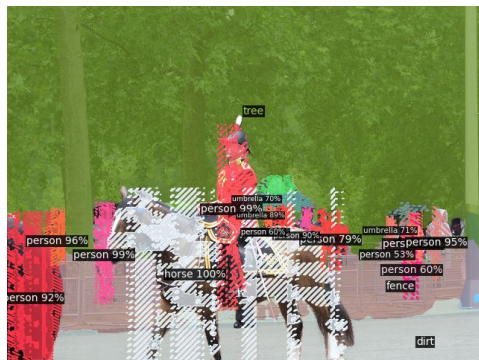
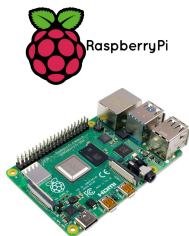
Cloud Services



Machine Learning Framework



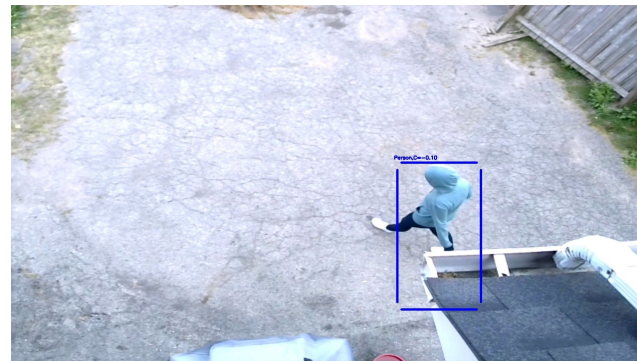
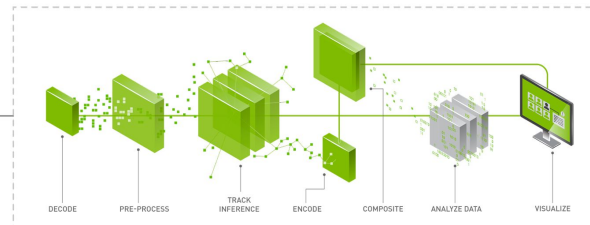
Iteration 1



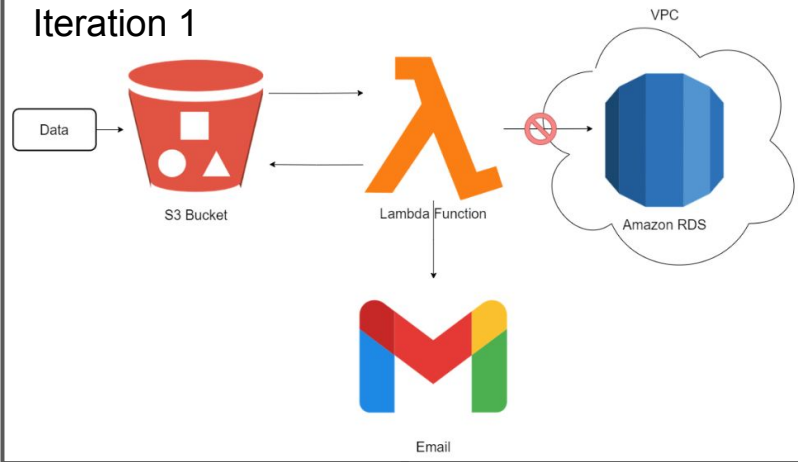
Iteration 2



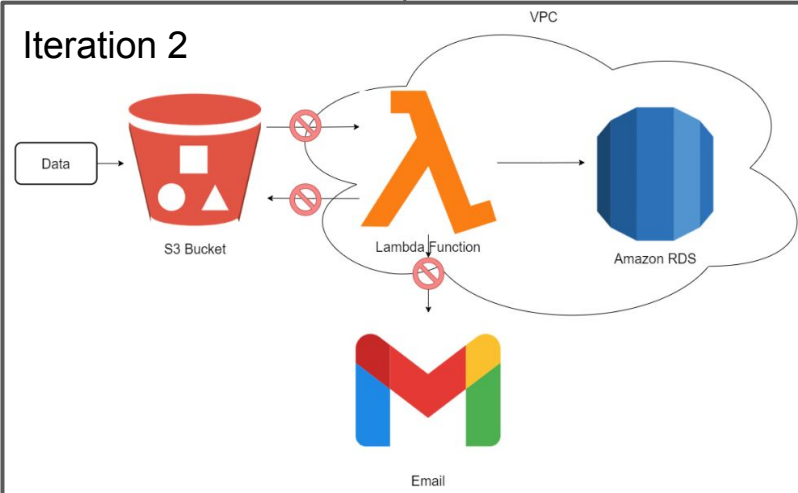
Final Iteration



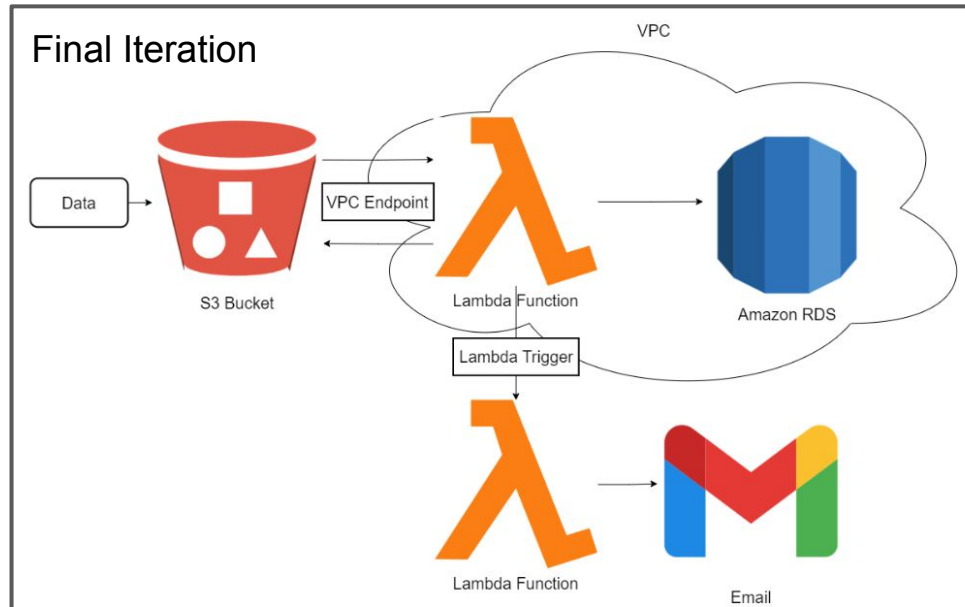
Iteration 1



Iteration 2

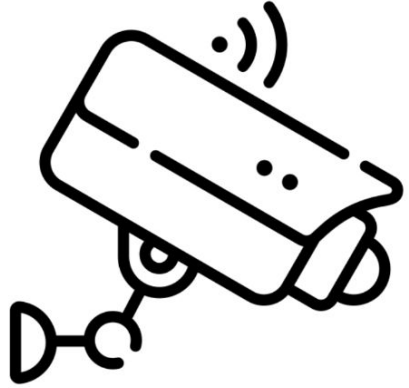


Final Iteration



Future Work

1. Add event based recording for fluid video capture.
2. Improvements to model accuracy and capability.
3. Add functionality to enable local hosting for better data privacy.



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Machine Vision Security System