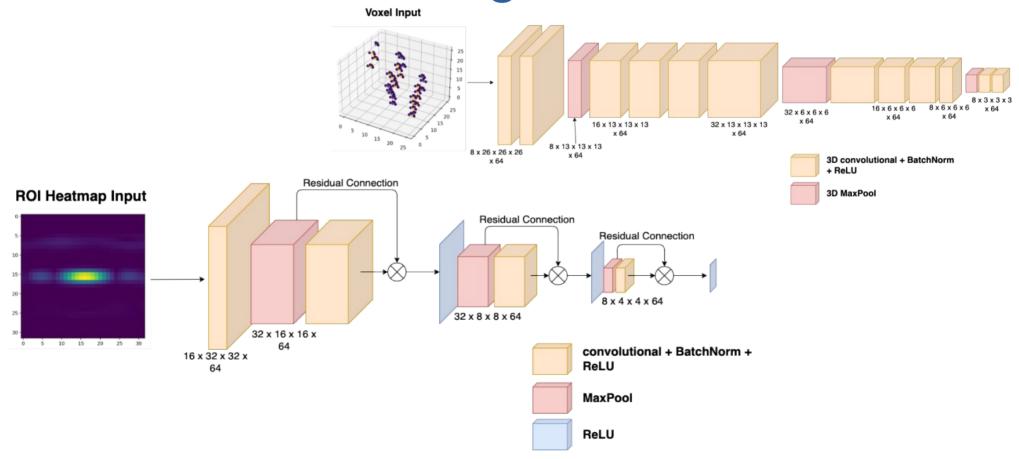
Use low-power mm-Wave sensors to detect people, movement and concealed weapons

Goal: to design the detection algorithms for a lightweight, portable and battery operated sensor to assist in anti-poaching exercises in South Africa

Extract Information from Voxel Point Clouds and Regions of Interest



mm-wave Classification Tasks

- Most existing work use Doppler signatures as features
- Some make use of heatmaps
- This project aims to utilize millimeter-wave sensors to classify small static objects
- Aim for a lightweight design, i.e., limit:
 - data structure size
 - runtime
 - energy usage

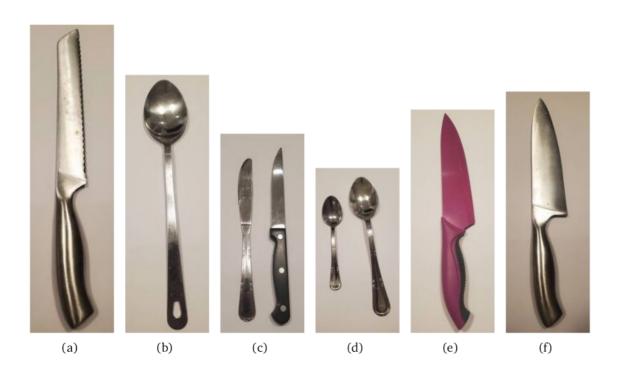




Project will rely solely on data

Clasification Goals

Detect small metal objects from a minimum range of 2 meters.





This project is for you if you...

- Have some experience with Machine Lerning / Deep Lerning / Neural Networks
- Are interested in working with a company that is on the cutting edge of mm-wave technology
- Are curious about the limits of detection technology and would like to help push the boundaries