Inexperience or cognitive decline makes certain tasks seem daunting.

Example: Building an item comprised of several parts to be assembled.

Impractical to dispatch human assistance at scale.

Cloudlet-backed Android application which guides user through pre-defined assembly process.

Surprisingly few examples from methodical data collection process with little randomness works well.

Relatively few lighting and surface variations produces reasonably well defined behavior.

One shot object detector reasonable at distinct coarse grained level, but fine grained level more challenging (e.g. joystick placement, small parts).

Latency is an issue for annotated video, but audio feedback acceptable.

Training networks challenging due to Murphy’s visits.

Android client energy efficient due to cloudlet offloading.