

# Baggage

## Challenge

- Detect threat/non-threat in baggage with X-Ray
- Reduce false positives

## Classes & Data

- Assault rifle, revolver, self loading pistol, shotgun, submachine gun and non-threat examples
- 756 Real Labeled Data
- 80,000 Synthetic Data
- Bounding boxes

## Algorithm

- Resnet

## Takeaways

- Synthetic data proves its value to bootstrap an algorithm when no real data is available
- Diversity of synthetic data drives “last mile” performance to achieve production ready accuracy



Baggage (Threat/Non-Threat)

