PROBLEM TITLE
Protecting the Internet of Things (IoT)

BACKGROUND
The introduction of the Internet of Things (IoT) has triggered an explosion of network communication globally. Many devices open connections to servers hosted by the manufacturing corporations while other open connections to other IoT devices. Many of the protocols used by IoT devices to communicate are proprietary and non-standard. Being able to identify IoT devices, who and what they are communicating with, and what their capabilities are can greatly help analysts with everyday tasks and ultimately permit allocation to more important analytic activities.

CHALLENGE
Analysts need to efficiently distinguish between IoT and non-IoT traffic, and identify specific types of IoT devices.

LIMITATIONS
- Technical Thresholds:
  - Need to be able to have flexible input methods
  - Process large, unidentified datasets
  - Simple, analyst friendly interface
  - Export data in a variety of formats
- Relevant Tech:
  - Cloud analytics, machine learning, automated standard ingest (IEEE standards)
- Environmental Conditions:
  - May end up operating in classified spaces (make it portable)

PROBLEM OWNER
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