Beta Presentation
Profiling Manufacturing Plant Computer Network Traffic
The Capstone Experience
Team GM
Ignacio Brarda
Logan Cummings
Ben Frisanco
Joseph Guzman
Bella Oh

Department of Computer Science and Engineering
Michigan State University
Fall 2019
Project Overview

- Manufacturing Plant Network
- Machine Learning
- Anomaly Detecting
System Architecture

GM Plant + Network Monitoring Tool

Netflow Log Server

MySQL

Tableau

GM Network Security Team

SciKit Learn
Client Bytes Models Vs ELK (1 of 2)
Client Bytes Models Vs ELK (2 of 2)
Server Bytes Models Vs ELK (1 of 2)
Server Bytes Models Vs ELK (2 of 2)
What’s left to do?

- Create documentation for ELK stack
- Create documentation for in-house models
- Package and distribute final deliverables
- Delete all instances of data and other clean up activities
Questions?