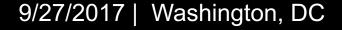




Sandeep Vasani | Forward Deployed Software Engineer

Jaime Sanchez | Sales Engineer



Forward-Looking Statements

During the course of this presentation, we may make forward-looking statements regarding future events or the expected performance of the company. We caution you that such statements reflect our current expectations and estimates based on factors currently known to us and that actual events or results could differ materially. For important factors that may cause actual results to differ from those contained in our forward-looking statements, please review our filings with the SEC.

The forward-looking statements made in this presentation are being made as of the time and date of its live presentation. If reviewed after its live presentation, this presentation may not contain current or accurate information. We do not assume any obligation to update any forward looking statements we may make. In addition, any information about our roadmap outlines our general product direction and is subject to change at any time without notice. It is for informational purposes only and shall not be incorporated into any contract or other commitment. Splunk undertakes no obligation either to develop the features or functionality described or to include any such feature or functionality in a future release.

Splunk, Splunk>, Listen to Your Data, The Engine for Machine Data, Splunk Cloud, Splunk Light and SPL are trademarks and registered trademarks of Splunk Inc. in the United States and other countries. All other brand names, product names, or trademarks belong to their respective owners. © 2017 Splunk Inc. All rights reserved.



Who is Sandeep & Jaime

This is where the subtitle goes

Jaime Sanchez

- Sales Engineer for Splunk
 - With Splunk for 2.5 years
- Experience
 - Security, IT Ops, Business Analytics
 - Technical Sales: Virtual Team & Field
 - Current: Virtual Team
- ► Favorite Factoid:
 - It would take ~ 1 million mosquitoes, each sucking once, to completely drain the average human ~ Chris

Sandeep Vasani

- Forward Deployed Software Engineer
 - 10 months @ Splunk



Agenda

- What is Physical State Analytics
- Basic overview of sensors
- ► How did we do it?
 - Machine Learning with Splunk
 - Data Collection
- Demo
- Quick Recap



What is Physical State Analytics

General Overview



Physical State Analytics

What does it consist of...Time Travel?

► Consists of Spatial and Temporal contextual information

Space

Time

Real-time data collection & Analytics

splunk>

.conf2017



Sensor Data can be leveraged for commercial applications for detecting movement pattern and prediction.

What is our movement: stationary, walking, running?



Mobile Phone Sensors



Ambient Light

Proximity

Cameras

GPS

Accelerometer

Gyroscope

Microphone

Compass

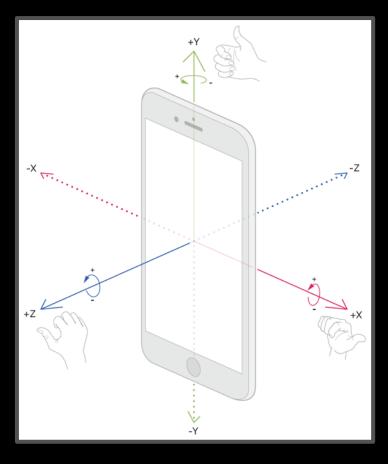
- Phone Usage
 - Light Sensor Screen Dimming
 - Proximity Phone usage
- Content Capture
 - Camera Image/Video Capture
 - Microphone Audio capture
- Location Mapping
 - GPS Global Location
 - Compass Global Orientation
- Device Orientation
 - Accelerometer & Gyroscope Local Orientation



Accelerometer

Measures changes in velocity along the x, y, and z axes

Gyroscope



Measures the rotation rate around the x, y, and z axes





General Overview



Custom Machine Learning with the Splunk Platform

Ecosystem

Splunk's App Ecosystem contains 1000's of free add-ons for getting data in, applying structure and visualizing your data giving you faster time to value.

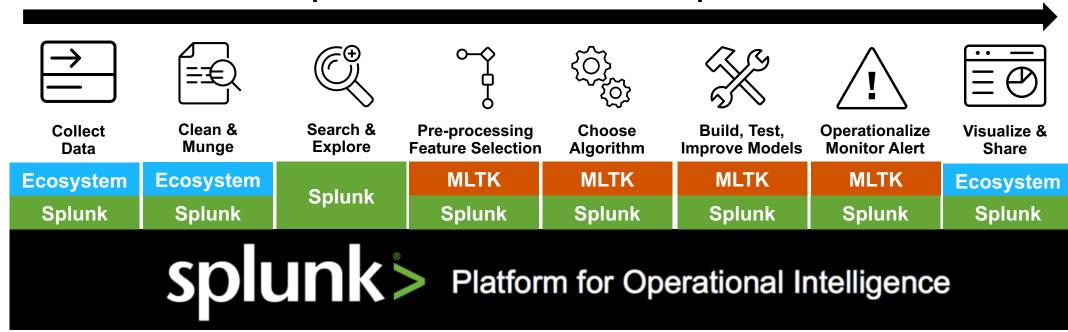
MLTK

The Machine Learning Toolkit delivers new SPL commands, custom visualizations, assistants, and examples to explore a variety of ml concepts.

Splunk

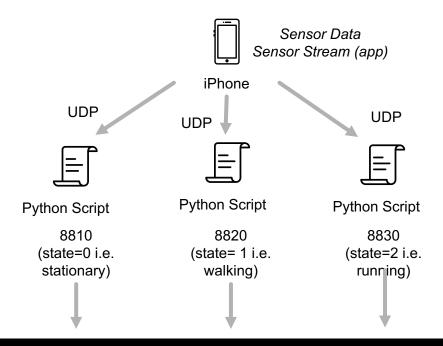
Splunk Enterprise is the mission-critical platform for indexing, searching, analyzing, alerting and visualizing machine data.

Operationalized Data Science Pipeline





Data Collection





MLTK



Splunk Demo

Presented by Sandeep





Use Cases and Applications

General Overview



Applications

Where can I use this data?

- ► Health
 - Track health and wellness
- Marketing
 - Advertising
- Social Networks
 - Classification of what state the user was in while interacting with social media (like taking a picture)





- 1. Valuable insights from Sensor data
- 2. Experiment with features and algorithms
 - Not all features created equal
- 3. The more data the better
 - E.g. Different orientations of holding the device





Don't forget to rate this session in the .conf2017 mobile app

