

# Perform Preventive Maintenance with IoT Core

*Apply Machine Learning to predict and prevent system outages.*

The majority of business, medical, and manufacturing is connected through the IoT (Internet of Things), giving businesses the power to analyze the performance of their device performance. With SpringML & Google's Cloud IoT Core, we can help optimize the efficiency of the devices within your network, by analyzing machines to detect those at risk for failure, giving you insight into which components require preventive maintenance action.

## Our Guided Approach to IoT Preventative Maintenance

Define User Stories

Data Capture

Real-Time Data Streaming

Apply Machine Learning

Integration

Pipeline Deployment

### IoT Core

We connect your entire network of micro-controller devices to the Google Cloud Platform to intake data regarding the devices operation at store it in using Google's BigQuery.

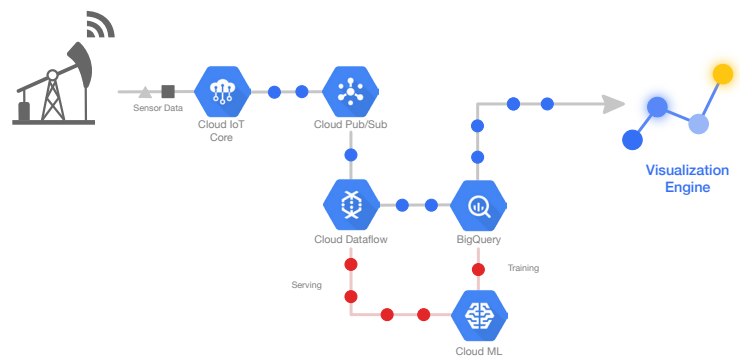
### Integration

We can then capture real time data streams using Google Pub/Sub and apply our machine learning tools to optimize the devices.

### Analytics

We then analyze this data and give you quantitative data to use to help improve the efficiency of your device network either through the fine tuning or maintenance of the device's mechanisms.

### DEPLOYMENT ARCHITECTURE



## Our Path Toward Improving Your Device Management

1

**Blueprint and Strategy Workshop**  
4 Hours

2

**Rapid Prototyping and Configuration**  
1-2 Days

3

**Production Quality Implementation**  
6 Weeks