# **ML ENABLED PREDICTIVE QUALITY** UW iSchool Capstone Project 2019-20



Talking Rain.

### **PROJECT BACKGROUND**



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#### The Problem

Despite stringent Quality Control measures, some non-optimal lots enter the market and draw complaints



### **The Objective**

Develop a predictive model using for early identification of quality issues in production lots



#### **The Stakeholders**

Quality Assurance Team Technology & Analytics Teams Talking Rain Customers



**The Priorities** Prioritize detection of all non-optimal lots over retesting of good lots Customer Experience > \$\$

## **PROJECT APPROACH**





### **RESULTS & BUSINESS OUTCOMES**



Early Detection of Anomalous Production lots



Reduction in number of complaints received from customers

Improvement in customer experience and satisfaction with the product

Improved profits due to product quality optimization

-Team Alternative Hypothesis - Anuj Chiplunkar | Apurva Mehta | Sabarisha Subramaniyan | Sayali Kulkarni