

# Test the Bot; Test with the Bot







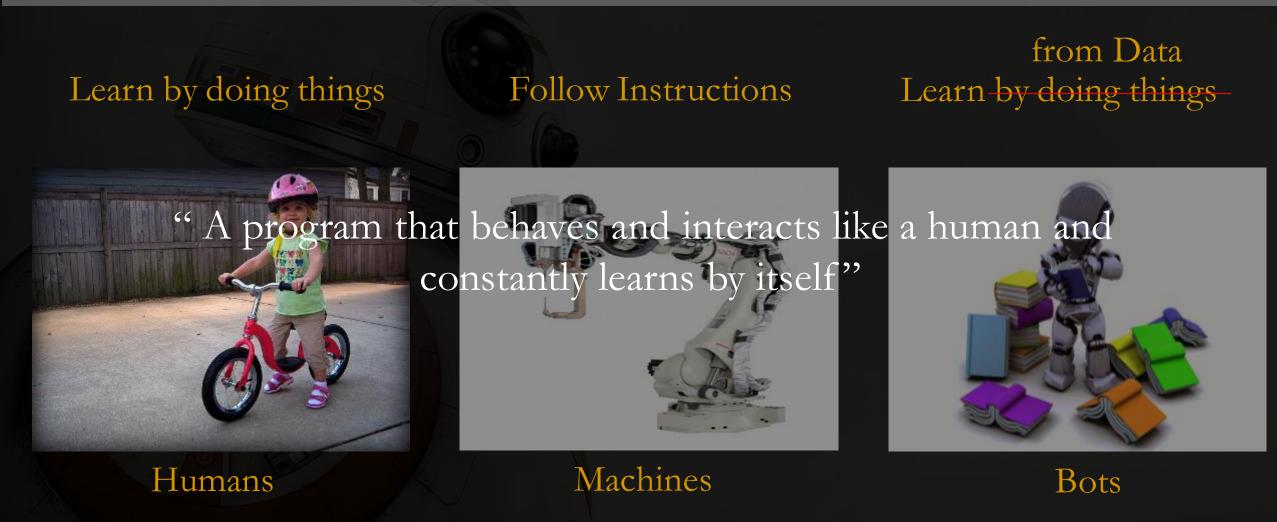
### Adonis Celestine Technology Consultant



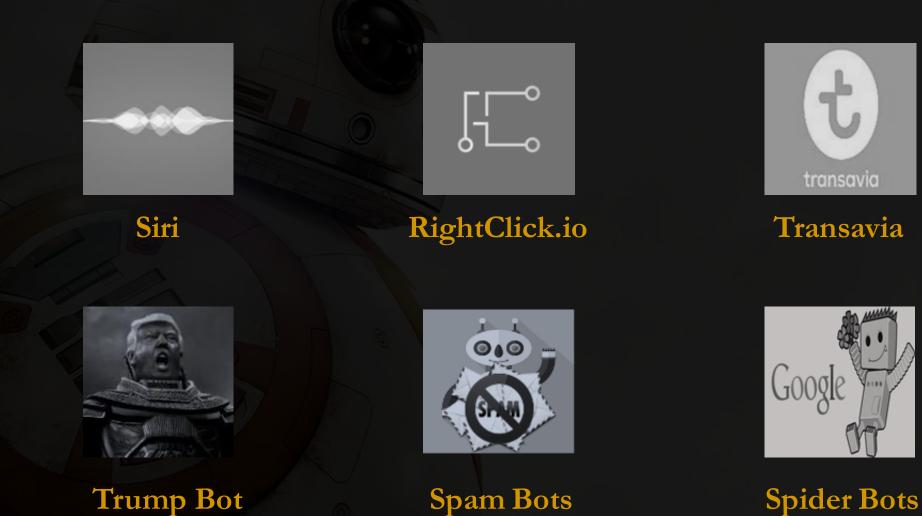
# Cognizant

Cognizant Technology Solutions

## What Are Bots



## **Bots Here Bots There Bots Everywhere**

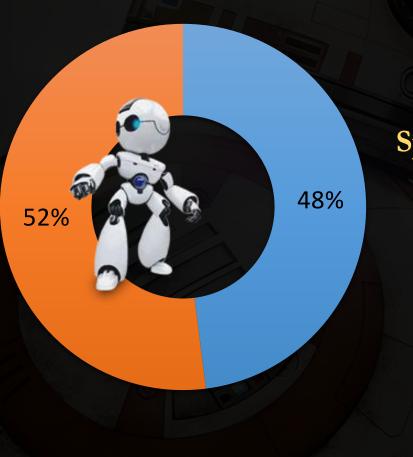


Spam Bots

**Spider Bots** 

## Why Now?

#### Online Traffic Report 2016



Speech Recognition Deep Learning Image Recognition Machine Learning & Data Science Graphics Processing Unit Natural Language Processing

**Big Data** 

**Predictive Analytics** 

## Data To Patterns To Prediction

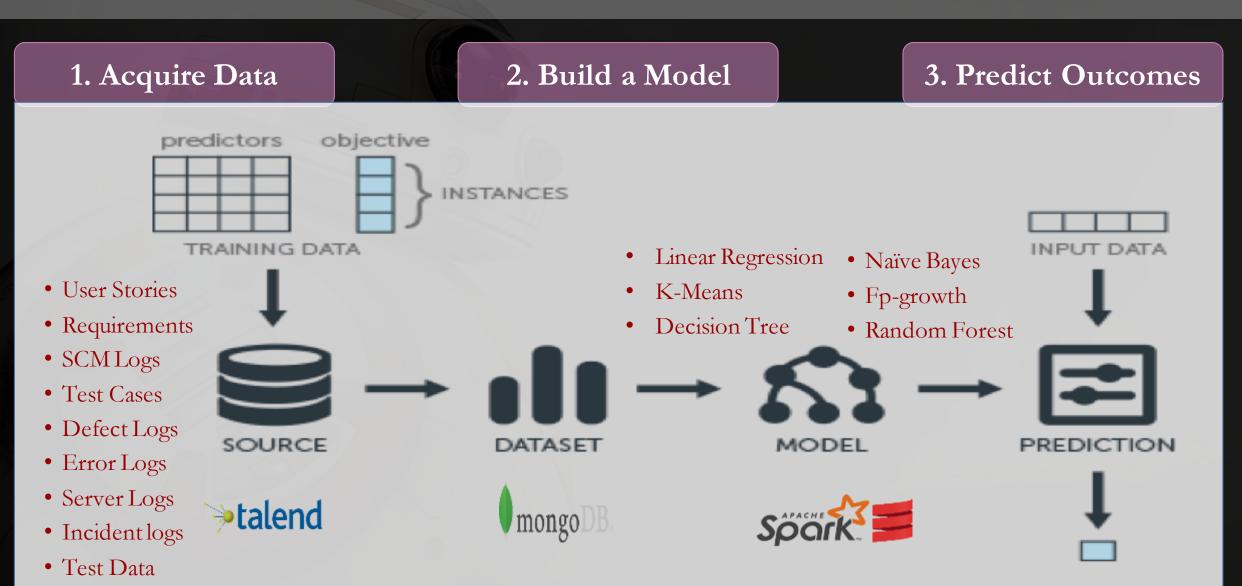




## Test With The Bot



## Machine Learning Process



## How Bots Can Help Us



#### **DEFECT PREDICTION**

Predict the defects early in the cycle by the application of advanced text analytics on **user stories, scm logs, defect logs**.

### **ANALYZE TEST DATA DISTRIBUTION**

Create your test environment as similar to your production environment by advanced distribution analytics.

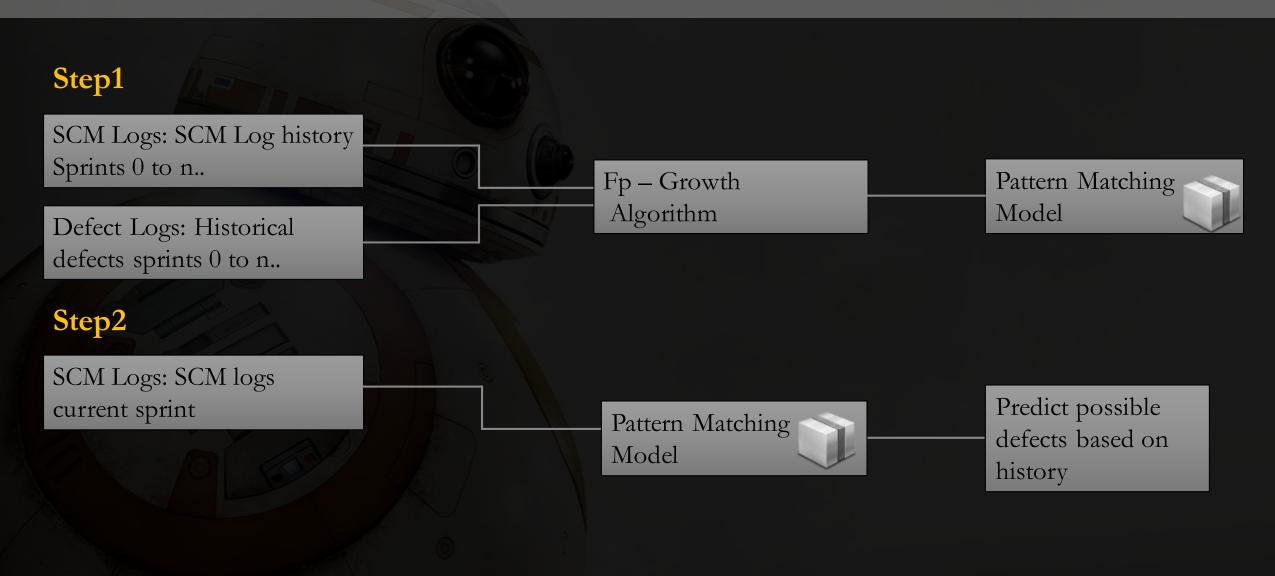
#### ANALYZE USER EXPERIENCE

Identify geo-specific gaps in the market to drive scope and prioritization of next sprint's backlog

#### **PREDICT EFFORT REQUIRED**

Predict the user story points for user stories by the application of clustering algorithm on **user stories**.

## **Demo - Predicting Defects**

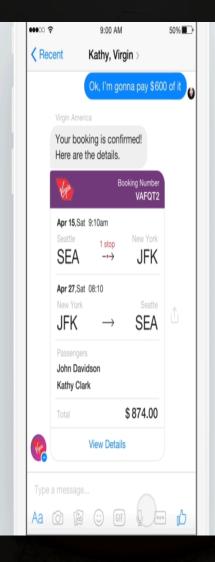




## Test the Bot



## The Rise Of Chat Bots



Easy to create one

24/7 Customer service

Gives personalised service

Gives customer perspective

It's fun...

## Challenges



2

Language & Linguistic Variation

Platforms and dependencies



Humanization = Personality of their own



Traditional automation will not work



## **Possible Solutions**



**Turing Test** 



Bot Vs Bot

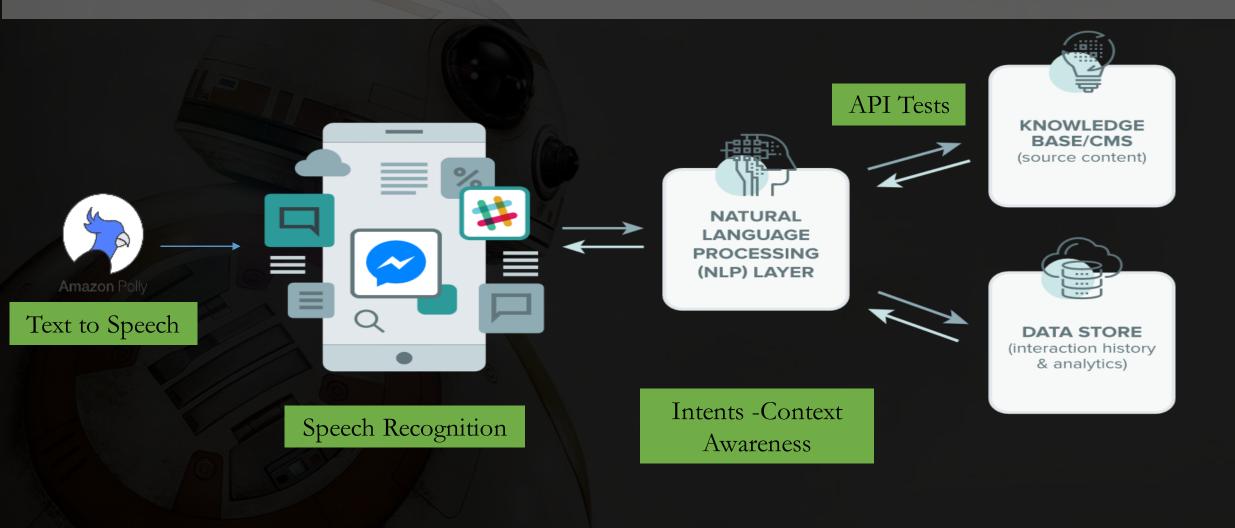


**Crowd Testing** 

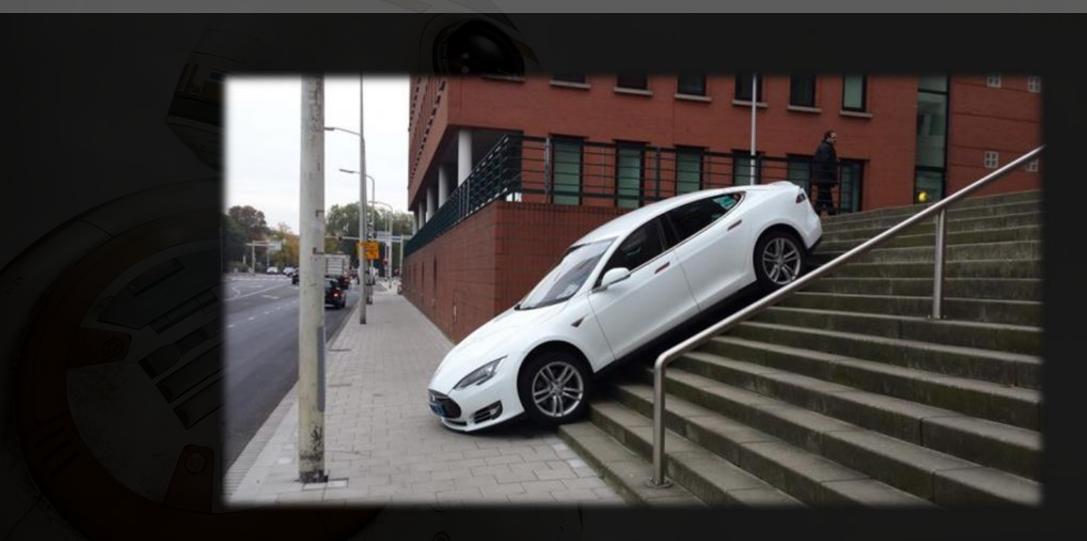


**API** Testing

## What did We Test



## The Fine Print



"You can't solve tomorrows problem with today's thinking"

## THANK YOU

