## Data Science PROJECT

Client: ABC Tech | Category: ITSM - ML

Project Ref: PM-PR-0012

### **Business Case:**

ABC Tech is an mid-size organisation operation in IT-enabled business segment over a decade. On an average ABC Tech receives 22-25k IT incidents/tickets , which were handled to best practice ITIL framework with incident management , problem management, change management and configuration management processes. These ITIL practices attained matured process level and a recent audit confirmed that further improvement initiatives may not yield return of investment.

ABC Tech management is looking for ways to improve the incident management process as recent customer survey results shows that incident management is rated as poor.

#### Machine Learning as way to improve ITSM processes

ABC Tech management recently attended Machine Learning conference on ML for ITSM.

Machine learning looks prospective to improve ITSM processes through prediction and automation. They came up with 4 key areas, where ML can help ITSM process in ABC Tech.

- 1. Predicting High Priority Tickets: To predict priority 1 & 2 tickets, so that they can take preventive measures or fix the problem before it surfaces.
- 2. Forecast the incident volume in different fields , quarterly and annual. So that they can be better prepared with resources and technology planning.
- 3. Auto tag the tickets with right priorities and right departments so that reassigning and related delay can be reduced.
- 4. Predict RFC (Request for change) and possible failure / misconfiguration of ITSM assets.

## **Data Set Fields:**

Total of about 46k records from year 2012,2013,2014

Data needs to be queried from MYSQL data base (Read Only Access)

Host: 18.136.157.135

Port: 3306

Username: dm\_team

Password: DM!\$Team@&27920!

Password: DM!\$Team@&27920!						
SUB000508						
subapplication						
Web Based Application						
WBS000162						
IM0000004						
Closed						
4						
4						
4						
incident						
KM0000553						
closed						
26						
05/02/2012 13:32:57						
04/11/2013 13:50:27						
04/11/2013 13:51:17						
3871,691111						
Other						

No_of_Related_Interactions	1
Related_Interaction	SD0000007
No_of_Related_Incidents	2
No_of_Related_Changes	1
Related_Change	C00000056

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# **PRIORITY Matrix**

		Urgency							
		1	2	3	4	5	5 - very low		
Impa ct	1	1	2	3	3	3	3		
	2	2	2	2	3	3	4		
	3	2	2	3	3	4	4		
	4	3	3	3	4	4	4		
	5	3	3	4	4	5	5		

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