A STITCH IN TIME ADDS NEW GUSTOMERS

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DATA

- Incident data; Describes the number of incident that occurs for a particular Customer.
- No of Rows: 54448
- Columns: Calendar Year Month, #Cases, No of Escalation, No of parts used, No of response missed, NO of single Visit Missed, SAID
- Conversion Data: Describes the number of customers who extended the contacts.
- Row used: Renewal Date, SAID, Status
- No of Rows: 16066

DATA CLEANING

- Incident File: Made sure that that each SAID and Year Month are unique.
- Conversion File:
- Multiple SAID Renewals we changed to only the most recent conversions.
- Removed Null Values
- Merged Incident and Conversion file to one file and removed the null values.
- Final Data Count: 50684

Attributes	Coeff	P-Val	Decision
a	-1.91668601	0	Selected
b	0.02458774		
Beta	0.32412297	0.01048365352 85915	Selected
No of Escalation (ge)	-6.13528418	0	selected
Number of single visit missed (gv)	12.91777872	0.23374148793 7478	
Number of response missed (gm)	3.33534501	0.10621291481 0881	

MODEL

Full Model:

```
Y = Sum(-exp(beta*(tcp-t))
log(I+cit) [I+
ge*(I+log(Escalation)+gv*log(I+visi
t_missed))
+gm*log(I+response_missed))] )
```

Selected Model:

```
Y = Sum(-exp(beta*(tcp-t))
log(I+cit) [I+
ge*(I+log(Escalation)+gv)] )
```

INFERENCES AND SUGGESTION

- The conversion of a customer probability on time between the incident and escalations.
- Using this model, We can tag various customers based on priority to help the sales team better target the customer.
 - Label customers based on incidence and escalation for targeted advertising.