Created by: Anubhav Oberoy

System: SAP SAC Implementation project

Software Requirement Specification: SAC Regression Scenario

A Car Insurance Company



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User Persona:



Stella Johnson is **Data scientist** working with Anubhav Trainings. She is a data scientist who has been devoted to the analytics industry and the development and use of data technologies for several years. Currently, she is a Data Scientist on fulltime job, where she works on an iOS top 10 mobile game, doing a combination mix of user behavior research, exploration, data engineering, and statistical modelling. She is a master of digital marketing campaign design and analysis, as well as implementing various statistical and machine learning models to help solve real-world business problems. Before joining Anubhav Trainings, she was a Statistician at Princess Margaret Hospital where she published 2 papers in academic magazines, covering breast cancer research and image processing.

The Business Story

Insurance is not an 'over the counter' physical product or an instant service. It is a promise. And the insured people expect the company to fulfill the promise at a time when they need it the most, which is during troubled times such as an accident. The success of an insurance company, in the long run, is often based upon its Motor Insurance Claim Settlement Ratio. A company might be making profits at first but if its customers are not happy with the claims process, the profit graph is poised to plummet in the subsequent quarters.

When the insured raises a vehicle insurance claim, they expect the insurance company to settle it at the earliest. However, the claims team has their own challenges while settling these claims. They have to rely on a pre-defined **car insurance claim process**, have to coordinate with partner garages or other third parties, and are bound by certain rules and regulations.

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The general insurance industry is changing after its digitization. Insurance providers are becoming more transparent and claim-friendly. The claim process is continuously upgraded to make it trouble-free.

Stella would use SAC predictive scenario to help Insurance company meeting their goals. The goals of the Claim settlement department are:

- Improve customer satisfaction by expediting the claim process
- Reduce the chances of false claims
- Exorbitant claim amount must be scrutinized

Objectives with Smart Predict are in this use case are:

- 1. Understand Claim Amount per customer which is expected to come
- 2. Observe the claim amount pattern w.r.t. customer's income per vehicle segment
- 3. Check tentative customer claims as per Policy types

Below is the screenshot of all the claims data provided by Claims Department



Requirement 1: Create the Training dataset Requirement 2: Create Predictive Scenario



Regression

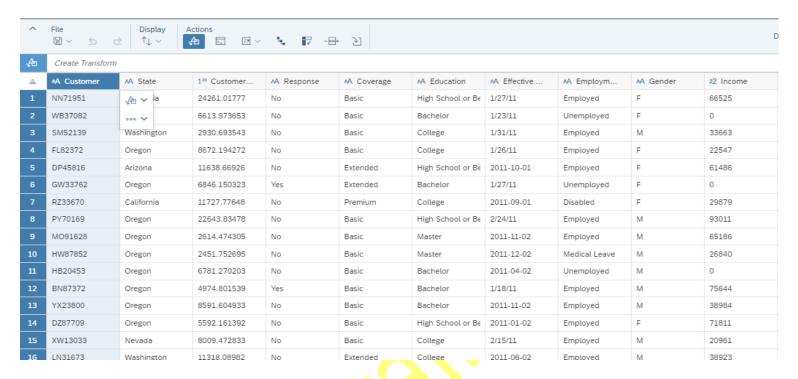
You want to predict numerical values for a variable based on fluctuations in correlated variables.

Example: Predict the price of an imported product based on projected transport charges, and tax duties.

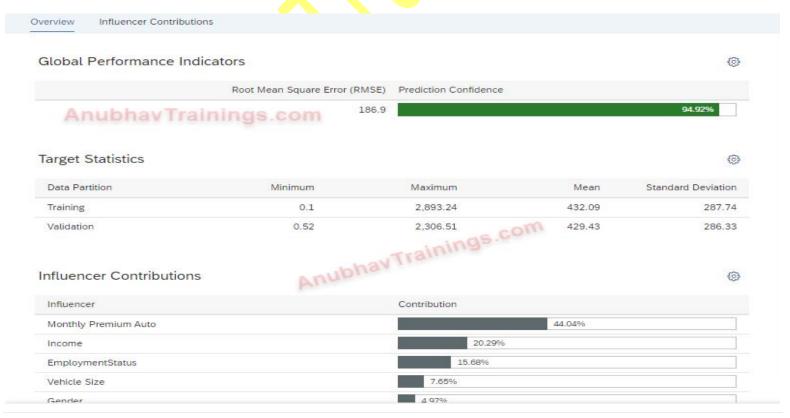
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Requirement 3: Provide the Training dataset (result is known) with the Target variable name.



Requirement 4: Analyze the results as per the Regression.



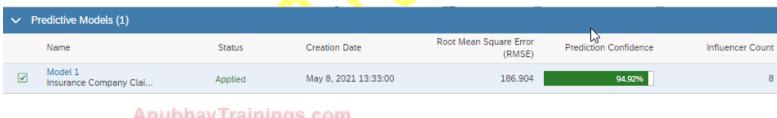
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Requirement 5: Understand the Residual Min and Max



Requirement 6: Apply the Model on application dataset to predict the Insurance Claim Amount.



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Requirement 7: Create a BI Model using the output dataset

AA Policy Type	AA Policy	AA Renew O	AA Sales Ch	AA Vehicle Cl	AA Vehicle Size	1 ²³ Predicted Value	22 Assigned
Personal Auto	Personal L3	Offer2	Web	SUV	Medsize	573.4453125	2
Corporate Auto	Corporate L3	Offer1	Branch	SUV	Medsize	849.1813354492188	1
Personal Auto	Personal L3	Offer1	Agent	Two-Door Car	Medsize	372.9237365722656	6
Personal Auto	Personal L2	Offer1	Branch	Sports Car	Large	545.869140625	2
Special Auto	Special L2	Offer1	Branch	Four-Door Car	Large	268.5915832519531	8
Personal Auto	Personal L1	Offer3	Branch	Four-Door Car	Medsize	538.93603515625	3
Personal Auto	Personal L3	Offer1	Agent	Four-Door Car	Medsize	457.7408752441406	4
Personal Auto	Personal L3	Offer4	Branch	Four-Door Car	Small	385.041748046875	5
Personal Auto	Personal L3	Offer2	Call Center	Four-Door Car	Medsize	239.0204315185547	9
Personal Auto	Personal L2	Offer3	Call Center	SUV	Medsize	760.0922241210938	1
Corporate Auto	Corporate L2	Offer1	Branch	SUV	Small	737.001953125	1

Requirement 8: Display the result in BI story by creating a dashboard



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For detailed training on SAP Analytics cloud with such real time scenarios, feel free to get in touch with us on

contact@anubhavtrainings.com

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