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Created by: Anubhav Oberoy

System: SAP SAC Implementation project

Software Requirement Specification: SAC Classification Scenario

A Global Company

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User Persona:



Tony Hafner is **Data scientist** working with Anubhav Trainings. He has vast experience in working with machine learning models with all kinds of scenarios. In 2011, he led the development of Stanford University's main Machine Learning Platform Learning and also taught an online Machine Learning class to over 100s of the students, thus helping not just himself but the community. He has been active contributors to all ML and AI based forums.

Hafner also works on machine learning, with an emphasis on deep learning. He had founded and led the "ATS Smart Insight SAC" project, which developed massive-scale deep learning algorithms. This resulted in the growth of the company he worked for, in his achievements one of the achievements was an algorithm developed on internet which a massive neural network with 1 billion parameters learned from unlabeled Google Ads traffic to help SEO

experts optimizing their keyword targeting.

Job Functions:

- Identifying the data-analytics problems that offer the greatest opportunities to the organization
- Determining the correct data sets and variables
- Collecting large sets of structured and unstructured data from disparate sources
- Cleaning and validating the data to ensure accuracy, completeness, and uniformity
- Devising and applying models and algorithms to mine the stores of big data
- Analyzing the data to identify patterns and trends
- Interpreting the data to discover solutions and opportunities
- Communicating findings to stakeholders using visualization and other means

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The Business Story

In today's digital age, the competition for high performing employees is greater than ever, and the costs associated with losing and replacing talent can be quite expensive. Organizations are looking to improve employee satisfaction to maintain loyalty, and reduce costs spent on recruiting and training new employees. To achieve this, organizations must take a proactive approach to human resources, instead of a reactive one.

Tony will review how an organization would typically review HR related KPIs, and understand how SAP Analytics Cloud Predictive features could influence proactive employee retention. If HR has to contact all the employees considering all of them will leave the company, it will cause huge cost overhead on the company and create panic, the idea is to help HR department to detect potentially high risk employee which are at high risk. Last year the company's attrition rate was 10.625 %

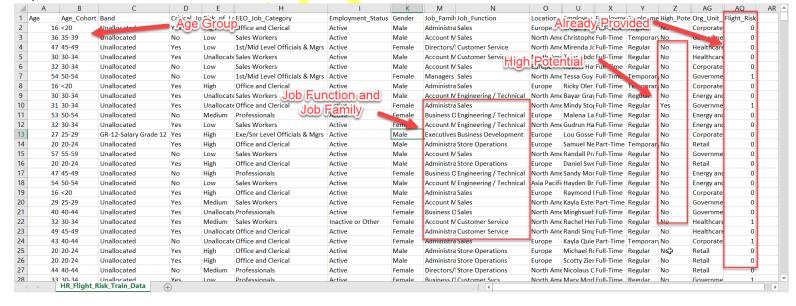
Tony would use SAC predictive scenario to help HR department meeting their goals. The goals of the HR department are:

- Improve employee satisfaction to reduce resignations
- Reduce cost of training and ramp-up of new employees, and
- Hire better talent.

Objectives with Smart Predict are in this use case are:

- 1. Understand reasons for disaffection
- 2. Act on these reasons proactively to avoid losing employees
- 3. Identify which employees might potentially leave the organization

Below is the screenshot of all the employee flight(already resigned from company) data provided by HR department



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Requirement 1: Create the Training dataset

Requirement 2: Create Predictive Scenario

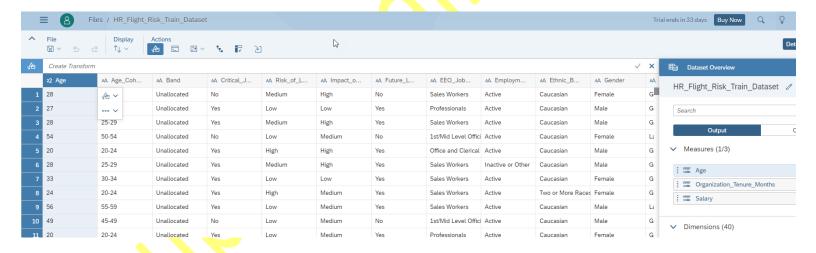


Classification

You want to predict membership of categories such as Yes/No, on a population ranked from the most probable case to the least.

Example: Predict if a customer is likely to churn or not, or if a manufacturing process component will require replacing within a short, or longer interval.

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

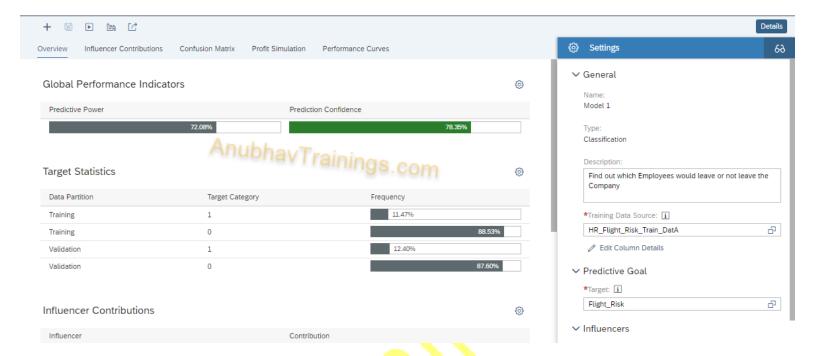


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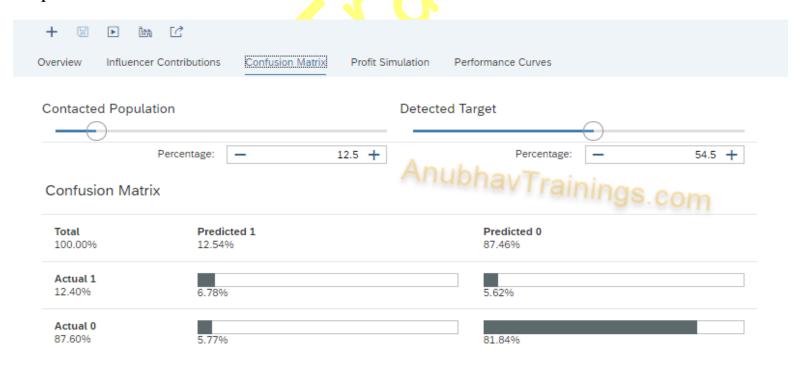
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Requirement 4: Analyze the results as per the metrics shown by Anubhav for Classification.



Requirement 5: Understand the Confusion Matrix and Profit Simulation.

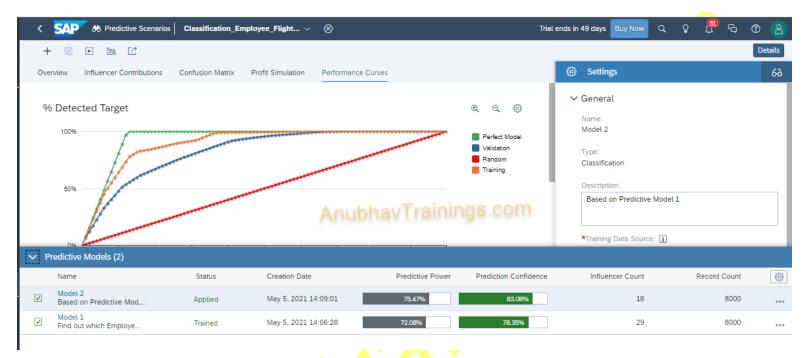


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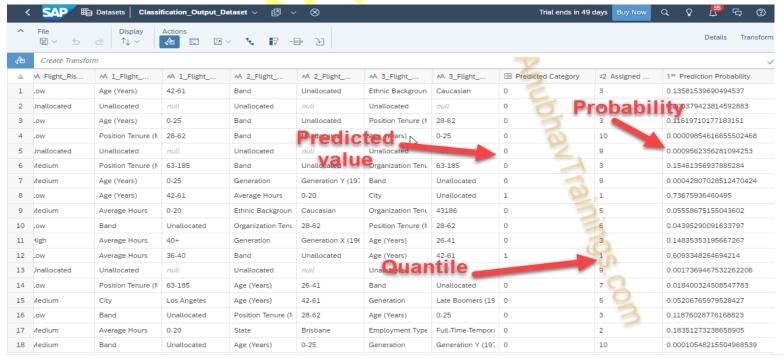
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Requirement 6: Apply the Model on application dataset to predict the flight risk of the employee.



Requirement 7: Create a BI Model using the output dataset

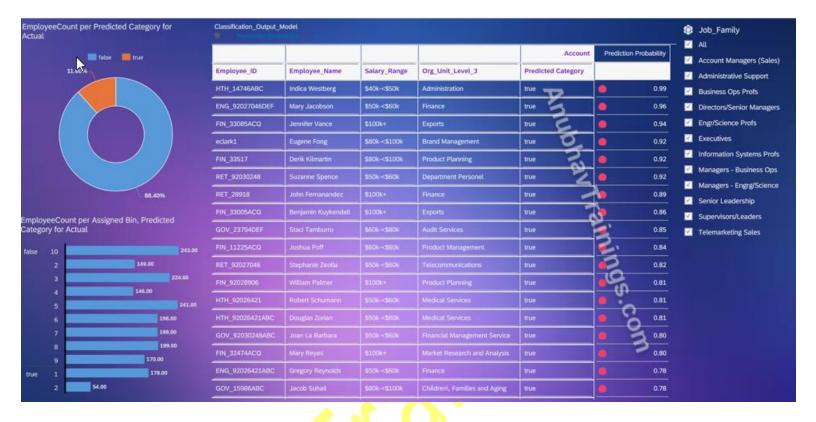


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Requirement 8: Display the result in BI story by enhancing the HR dashboard



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

contact@anubhavtrainings.com

Visit us at: https://www.anubhavtrainings.com