Scenario Based Learning

A company works with number of employees, all the works are dependents on the employees. Even if one of the employees resign the job immediately then assigned work will be not finished at the time, so delivery of the project to the clients will be delayed. Company planned to make solution for this, they want to know which employee may resign next. If they know previously, they can arrange alternative to avoid such problem. As an AI Engineer you must give Solution to this

.A)How will you achieve this in AI?

B)Find out the 3 -Stage of Problem Identification

C)Name the project

D)Create the dummy Dataset.

Based on the problem statement the requirement is clear so it should be falls in supervised learning.

For predicting which employee resign or not resigned, we can use the existing data set so input can be used here employee number, employee name, employee gender, employee dob, employee survey rating, performance rating, position, salary, total experience, resignation ddd/mm/yy and skills Output or Label is resignation status.

Based on above criteria employee details/input maintained in database so the Domain selection will not be text or image format.

It should be Machine learning or time series analysis as we can analysis which year/month time employee putting his/her resignation.

Stage-3 selection is regression or classification. As this fall under category where employee resigned/not resigned. and

final selection is

Stage-1: Machine Learning

Stage-2: Supervised Learning

Stage-3: Classification

Name of project: Employee resignation status

Dummy Dataset:

Employee Details:

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **E.Name** | **E.ID** | **E.Gender** | **E.DOB** | **Joining date** | **Experience** | **salary** | **Survey rating** | **Performance** | **skills** | **status** |
| Bala | 13568 | M | 09.02.1998 | 09.02.2020 | 3 | 4.5L | 3 | 3.5 | C | resigned |
| kiran | 3567 | M | 04.02.2000 | 04.02.2022 | 1 | 2.5L | 4.5 | 5 | Java | not resigned |
| thomas | 2432 | M | 05.06.1897 | 05.06.2013 | 10 | 15L | 4 | 4.5 | python | not resigned |
| ravi | 5313 | M | 08.07.1993 | 08.07.2019 | 3 | 5L | 2 | 1 | tester | resigned |
| Latha | 1456 | F | 07.02.1992 | 07.02.2018 | 4 | 6L | 1 | 2.5 | Admin | resigned |
| sekar | 1734 | M | 10.02.1995 | 10.02.2020 | 2 | 3.5L | 4.7 | 5 | java | not resigned |

Based on above details employee resigned based on least survey and poor rating performance and skills employee trained. We used the dataset already available to predict the employee resignation.