QUESTION :

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 this month or 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

Ans : Can be achieved by predicting the employees resignation records.

- Not Promoted category has Resigned

- Native Location other state has resigned

- Home to company Travel distance high has resigned

B) Find out the 3-Stage of Problem Identification

Ans:

Stage 1 : Machine learning (Input is text)

Stage 2 : Supervised Learning (Requirements are clear /Input & Output are present)

Stage 3 : Classification (Output is Categorical)

C) Name of the Project

Ans : Prediction of Employee Resignation

D) Dummy Data Set:

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Emp No | Name | Age | Tenure Current | Distance From Stay in KM | Native Location | Promoted / Not promoted | Number of companies worked | Job Satisfaction | Resigned / Not Resigned |
| 1 | Vettri | 43 | 7 | 25 | Madurai | Not Promoted | 5 | No | **Resigned** |
| 2 | Ashok | 35 | 5 | 10 | Salem | Promoted | 3 | Yes | Not Resigned |
| 3 | Priya | 28 | 3 | 8 | Villupuram | Promoted | 2 | Yes | Not Resigned |
| 4 | Deva | 39 | 5 | 75 | Kanchi | Promoted | 6 | Yes | **Resigned** |
| 5 | Venkat | 41 | 2 | 25 | Bangalore | Not Promoted | 4 | Yes | **Resigned** |
| 6 | Karthi | 43 | 10 | 40 | Chennai | Promoted | 5 | Yes | Not Resigned |
| 7 | Vignesh | 26 | 3 | 25 | Chennai | Not Promoted | 1 | No | **Resigned** |