

PROBLEM IDENTIFICATION

ASSIGNMENT

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 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?

This company needs a prediction about the resignation of their employees.

Prediction: Analyse the reason for their resignation

Call to action:

- + If their reason resembles the resignation, then the company will appoint new employee as a replacement.
- + If their reason doesn't resembles about the resignation, then the company will continue with the same employee.

B. Find out the 3 -Stage of Problem Identification

Stage 1: Machine Learning

Stage 2: Supervised Learning

Stage 3: Classification

C. Name the project

Job Resignation Prediction

| <u>Employee Name</u> | <u>Employee Age</u> | <u>Employee Salary</u> | <u>Employee Resignation</u> | <u>Reason for Resignation</u> | <u>Output/Label</u> |
|----------------------|---------------------|------------------------|-----------------------------|-------------------------------|---------------------|
| Suchi | 28 | 25000 | Developer | Marriage | Will resign |
| Raj | 35 | 40000 | Senior tester | Health issues | Will resign |
| Shruti | 49 | 50000 | Senior director | Operation | Will resign |
| Hema | 25 | 25000 | Testor | Continue the job | Won't resign |

D.Create the dummy Dataset.