**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.

1. How will you achieve this in AI?

Assume that dataset contain history of employee’s details - joining data, resigning date and so on. With this history, we can calculate how many years they have been working in this company and predict that which employee may resign based on their year of experience in the company.

Prediction: Need to find predict which employee is going to resign.

Call to action: If the employee resigns then notify the manager to hire new employee with same skillset.

1. Find out the 3 -Stage of Problem Identification

Stage-1: ML

Stage-2: Supervised

Stage-3: Classification

1. Name the project

Job Resignation Prediction

1. Create the dummy Dataset.

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| --- | --- | --- | --- | --- | --- | --- |
| S.No | Name | Joining date | Resigning date | Year of experience in this company | Total year of experience | Resigned/not |
| 1 | Swetha | 15/02/2012 | 15/02/2015 | 3 | 5 | Resigned |
| 2 | Deepika | 11/05/2012 | 28/12/2015 | 3 | 6 | Resigned |