**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

Solutions:

1. We need to collect the employees data such as age, gender, marital status, position, department, salary, last promotion/hike, performance, previous resignation(average working period of previous company), current company working period. Based on this information we will predict which employee going to resign
2. 3 stages
   1. Requirements are clear so its comes under supervised learning
   2. Output is going to classify the employee(resign or continue) so its comes under classification
   3. Many inputs are numbers so its comes under Machine learning, small part of time series analysis may required
3. Project Name: Employee Retention Prediction System

D)

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| E.No | Name | Age | Marital Status | Position | Salary | Last Hike | Performance | Previous Resignation Histories(avg working period) | Experience | Current Working Period |
| 1 | Ram | 25 | Single | Junior | 3L | 5% | 5 |  | Fresher | 1 year |
| 2 | Kumar | 35 | Married | Sernior | 15L | 5% | 7 | 2 | 8 | 2 year |