Q : 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.

Ans :

**A)**

We need to collect employees data (Data collection) as well performance, salary, previous work, rating..ect.After that we make ensure to which algorithm need for this(Model Selection).Finally execution part (Deployment or call action)

* We can use this historical data(Train and Test) to learn patterns of employees who have resigned.
* Prediction: After that we can predict the probability of resignation of an employee.

**B)**

1. Data collection
2. Model selection
3. Deployment

**C)**

Title : Employee Resignation Prediction

**D)**

**Dummy Dataset :**

| Emp\_Id | Cus\_Name | Age | Num of prev job | Perf\_Rating | salery |
| --- | --- | --- | --- | --- | --- |
| 1 | Hameed | 27 | 3 | 3.9 | 23000 |
| 2 | Faizal | 35 | 2 | 4.2 | 35000 |
| 3 | Abi | 21 | 1 | 4.0 | 18000 |