

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.

Solution:

- There is no image, no text, and no dates to process in the given problem.
- So, the above problem will come under **Machine learning**.
- We must find the employee status in every day or month who has resigned and inform to company responsible to plan the alternative way to have the regular protectivity.
- Also, the company will be maintaining the employee data in their database including when the employee has resigned the job and when will be the last date etc...,
- So, the requirement and input/output data will be clear. So, it will come under **Supervised learning**.
- Then we have to classify the employees who and all leaving the company in this month and from which department. So, it will come under **classification**.

ML->Supervised learning->classification

Name the project : Smart resource planner 😊

Dummy Data set:

EmpID	EmpName	DateOfJoin	Department	Level	ProjectCode	ManagerID	HRResponsible	Status	Resigning	LastDate
101	ABC	15-11-15	IT	50	PJ_101	112	114	Active		
102	Sanjay	01-01-10	HRS	52	PJ_102	117	114	Active		
103	Ragu	02-05-16	Infra	52	PJ_203	110	114	Resigned	15-02-19	15-04-19
104	Raja	06-11-17	IT	53	PJ_305	105	114	Active		
106	Senthil	01-12-18	Infra	52	PJ_304	104	114	Active		
110	Uma	23-11-01	Testing	49	PJ_101	112	114	Resigned	23-02-24	24-03-24