

A company works with number of employees, all the works are depending on the employees. Even one of the employees resigns the job immediately then the assigned work will not be finished at the time, so delivery of the work to the client will be delayed. Company plan to make solution for this, they want to know which employee may resign next. If they know early, they can arrange alternative to avoid such problem. As an AI engineer we must give solution to this

- A) How will we achieve this in AI?
- B) Find out the 3 stages of problem identification
- C) Name of the project
- D) Create dummy dataset

The Assignment for finding resigning employees department wise by AI

- A) We can achieve this solution by giving prediction to the management expecting employees may resign next month or upcoming months
- B) Stage 1- We deal with No of employees (Counts) – **Machine learning**  
 Stage 2 – We know the input but there is no proper out put and we can only find few employees from each department may resign, so we will take it as a **cluster – Unsupervised**  
 Stage 3 – We will conclude with count of employees, - **Regression**
- C) Name of the Project – Resolution for affecting work
- D) Create the dummy dataset

INPUT						OUTPUT
S.No	Department	Hot Skill	Salary	Performance of last 3 months	Last year Hike	Count of employee resign
1	Admin	Recruitment	10,000	Below average	5%	
2	Accounts	Tax	15,000	Below average	5%	
3	Mechanical	Draft	50,000	Below average	5%	
4	Purchase	PO	12,500	Average	10%	

Hot Skill – The hot skill employee may get offer.

Salary – Salary will play some roles to change the organization

Performance – When an employee decides to resign, then his performance will reduce

Hike – When the hike is less then the employees will think about resign.

**OUTPUT** – Based on the about input analysis, we will come up with the prediction of employees each department