

# Hope Artificial Intelligence

## 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.

Employee	Age	Gender	Departme	Job_Role	Tenure_Yr	Salary	Performa	Last_Prom	Avg_Mont	Engageme	Manager	Training_H	Marital_St	LeaveOrNot
101	29	M	IT	Developer	3	60000	4	1	160	7.5	1	20	Single	0
102	35	F	HR	HR Manag	7	80000	5	2	150	8	0	15	Married	0
103	41	M	Finance	Analyst	2	55000	3	2	170	6	2	10	Married	1
104	26	F	IT	Tester	1	50000	2	1	180	5.5	1	5	Single	1
105	38	M	Marketing	Executive	5	70000	4	3	155	7	0	18	Married	0

Dummy set:

- 1) Identify the business risk, project delays due to sudden employee resignations. The goal is to predict which employees are likely to leave soon
- 2) Stage 1-> Timeseries/Machine learning, Stage 2-> Supervised, Stage 3-> Classification
- 3) Proactive Resignation Risk Predictor