

# Hope AI

## Scenario Based Learning

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### **Problem statement:**

A company works with a number of employees, all the workers are dependents on the employees. Even if one of the employees resigns the job immediately then assigned work will not be finished at the time, so delivery of the project to the clients will be delayed. Company planned to make a solution for this, they want to know which employee may resign this month or next. If they know previously, they can arrange alternatives to avoid such problems. As an AI Engineer you must give a solution to this.

### **A) How will you achieve this in AI?**

A general thumb rule of AI is,

Prediction → call to action

If a particular employee is going to resign is predicted/known (Via mail/via HR in person), then as call to action, another employee shall be replaced

As a solution, on every month starting, the company HR can send a google form to all employees to know whether an employee will resign this month or next, from the google form response from the employee, they can arrange alternatives to avoid the work flow.

### **B) Find out the 3 stage of problem identification**

Stage-I

NLP

Stage-II

Supervised Learning

Stage-III

Classification (Resign/not resign)

### **C) Name the project**

*Employee Resignation Prediction*

### **D) Create a dummy Dataset**

S.No	Employee Name	Employee ID number	Employee Date of joining	Employee resignation status (Y/N)	If Yes (Reason)	Date of resignation	Remarks (If any)
1	Arun	123	5 May 2022	Yes	Health issue	30 Aug 2023	
2	Ajay	456	12 June 2021	No	Nil	Nil	
3	Raj	789	31 Aug 2020	Yes	Got another job	18 Aug 2023	
4	Ram	987	09 Sep 2018	Yes	Personal reason	25 Aug 2023	
5	Sita	654	23 Jan 23	Yes	Going to abroad	20 Aug 2023	