

Hope Artificial Intelligence

Scenario Based Learning – Problem identification assignment

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.

ANSWER:-

- A) How will you achieve this in AI?
 - To predict which employee is likely to resign next from the company, I would first ask what employee details the company has.
 - Try to get the details of employees like salary, work experience, work hours, contribution level, promotion & appraisal, work satisfaction, performance rating etc..
 - Based on these data patterns, train the model and if new employee data is given based on the learning it will predict whether the employee will resign? YES / NO

- B) Find out the 3 -Stage of Problem Identification

Stage 1 - domain: **ML** (as the input is number (Employee details)

Stage 2 - learning: **supervised** (as the input and output defined & Requirement was clear)

Stage 3 – **Classification** (based on the label category)

- C) Name the project

AI prediction: **Employee Resignation Prediction**

Call to action: **will employee resign? -> Yes/ NO**

D) Create the dummy Dataset.

Employee name	Salary	Work experience	Work hours	Contribution in projects (%)	Promotion & appraisal (yes/no)	Performance rating	Satisfaction level	Output label (Resign)
John	50000	5	9	10	no	7.5	6	yes
Henry	20000	3	10	10	no	8	6.5	yes
Elsa	42000	5	8	9	yes	9	8	No
Harish	15000	1	9	10	yes	9.5	9	No
ram	26000	2	8	9	no	9	8	no