

Machine-Learning

Problem Identification Assignments

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.

1.How will you achieve this in AI?

The assessment will be based on the employee's number of projects completed in a week, project success rate, project delivery on time, working hours per day, and number of leaves in a week.

2.Find out the 3 -Stage of Problem Identification

Problem statement: To predict employee resignation in advance.

Stage 1: Dataset type numbers – **Machine Learning or Deep learning**.

Stage 2: Labelled dataset – **Supervised**.

Stage 3: Categorical value – Employee will resign or Employee won't resign – **Classification**.

3.Name of the project: Employee Resignation Prediction.

4.Create the dummy Dataset.

Input					Output
Number of projects completed in a week	Project success rate	Project delivery on time	Working hours per day	Number of leaves in a week	Label
2	2	2	8	0	Not resigned
3	1	2	7	1	Not resigned
1	0	0	12	2	Resigned