Problem statement:

A company works with the number of employees, all the work depends on the employees. Even if one of the employees resigns the job immediately the assigned work will be affected and not be finished within the time frame. 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.

Solution:

1. Project name: Employee Attrition Prediction

2. How to achieve this in AI?

Employee attrition prediction model can be used to predict employees who are likely to leave the organization. This will help the organization to better organize the tasks effectively without affecting the timeline.

3. The 3 stages of the problem identification:

- Machine Learning
- Supervised Learning
- Classification

4. Dummy dataset

Input: Age, Gender, Leaves taken, Feedback, Tenure
Output: Resign- Yes / Continue to work - No

Employee Number	Employee Name	Gender	Age	Manager Feedback	Apprai sal %	Leaves Taken	Tenure in year	Output
HAI502	Kalidoss	Male	30	Good	30%	0	10	No
HAI512	Caroline	Female	34	Bad	12%	6	3	Yes
HAI514	Jaret	Male	35	Good	15%	3	2	Yes
HAI554	Vishaka	Female	30	Medium	20%	2	8	No
HAI556	Kent	Male	42	Medium	18%	1	4	Yes

HAI560	Jeremy	Male	29	Good	28%	1	1	No
HAI561	Deepak	Male	35	Bad	9%	2	5	Yes
HAI562	Goutham	Male	33	Good	25%	4	7	No
HAI563	Divya	Female	40	Medium	20%	0	9	No
HAI578	Manohar	Male	30	Bad	9%	1	2	Yes