

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?

This can be achieved by getting the employee details for past 5 or more years from Company

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

1. Machine learning
2. Supervised learning
3. Classification

C) Name the project

Employee retention prediction system

D) Create the dummy Dataset.

EmployeeID	Age	Department	Tenure (months)	Performance Score Last 12 Months	Average Monthly Hours Worked	Average No.of Overtime Worked Days in Month	Salary	Salary Increase %	Promotion Last_2_Years	Workload	Absent	Resigned
1	24	4	24	85	176	7	25000	5%	0	High	2	0
2	30	3	36	90	132	6	36000	3%	1	Medium	5	0
3	34	2	12	78	160	4	32000	8%	0	High	8	1
4	27	5	48	88	176	8	17000	2%	1	Low	1	0
5	48	3	18	80	110	5	45000	4%	0	Medium	4	1
6	34	4	30	95	154	7	32000	7%	1	Medium	2	0
7	25	5	60	92	176	9	17500	5%	2	Low	1	0
8	32	2	6	70	160	3	26000	10%	0	High	10	1
9	29	4	20	85	144	6	24000	6%	1	Medium	3	0
10	31	3	15	82	160	5	35000	4%	0	Medium	6	1