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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?

On understanding the problem statement First, I have to determine the domain selection, second find the learning selection for the given problem and finally decide whether regression or classification if the first stage falls under supervised learning.

First, the data is to be collected from the company and

B) Find out the 3 - Stage of Problem Identification

Stage 1: The company requirement is very clear to determine the employee who is going to be resigned next and the problem for the company can be solved using machine language if the data provided in numbers.

Stage 2: Identify the learning:-The solution for the company problem comes under supervised learning since the company wanted to predict which employee may resign next or not. The output is very clear.

Stage 3: Dataset falls under classification because the company wanted to classify whether the employee is going to resign or not. Ie they are asking to classify as resigned and retained.

C) Name the project

Attrition Prediction.

D) Create the dummy Data

Pls find the dummy data for the

S.No	Gender	Age	Salary	Market Salary	exp	Married	Resign
1	1	23	18000	24000	3	0	1
2	0	35	33000	43000	10	1	0
3	1	37	50000	75000	13	1	1
4	0	26	45000	25000	5	1	1
5	0	23	20000	25000	3	0	1
6	0	30	30000	45000	7	1	0
7	0	27	28000	25000	5	0	0
8	1	50	75000	100000	20	1	0
9	0	18	18000	15000	1	0	0

10	F	32	50000	15000	1	1	0