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?

B) Find out the 3 -Stage of Problem Identification

C) Name the project

D) Create the dummy Dataset.

SOLUTION:

A) HOW WILL YOU ACHIEVE THIS IN AI?

I HAVE TO PREDICT THE DATABASE COLUMN THAT IS "LIKELY TO RESIGN" COLUMN OF TARGET VARIABLE, IT IS THE MAIN THING OF THE AI SOLUTION.

IF THE PREDICTION RESULT FOR AN EMPLOYEE IS "YES" , IT INDICATES RESIGNATION.

B) FIND OUT THE 3-STAGE OF PROBLEM IDENTIFICATION:

1. **DOMAIN SELECTION:**
   MACHINE LEARNING (BECAUSE IT CONTAINS DATABASE, THAT IS BASED ON THE NUMBERS) SO I HAVE SELECT <u>MACHINE LEARNING</u> DOMAIN.
2. **SUPERVISED LEARNING:** HERE BECAUSE WE HAVE LABELLED HISTORICAL DATA.
3. **SUPERVISED – CLASSIFICATION:** HERE TARGET VARIABLE OR OUTPUT IS YES/NO.
4. **SO FINALLY ,**
   MACHINE LEARNING
   SUPERVISED – CLASSIFICATION

C) NAME THE PROJECT:
   EMPLOYEE RESIGNATION PREDICTOR

D)CREATE A DUMMY DATA SET:

EMPLOYEE CODE	AGE	DEPARTMENT	WORKING PERIOD YEARS	SCORE CARD	PROMOTION	LIKELY TO RESIGN
1001	34	SALES	4	4.5	2	NO
1002	45	FINANCE	6	4.6	4	NO
1003	40	MARKETING	4	3.5	1	YES
1004	35	QUALITY	3	3.9	1	NO