Hope Artificial Intelligence

Scenario Based Learning Assignment

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?

Predicting the Resigning job of an employee within an organization such that whether the employee will leave the company or continue with it.

Data of previous employees uses this Scenario who have worked for the company and by finding a pattern it predicts the resignation in the form of yes or no.

This kind of parameters used to predict resignation such as Employee id, Joining Date, Last Evaluation Time, Number of Projects, Promotion for Last 5 years, Department of Employee, Salary, Last Absent in this month, Average Monthly Working Hours, Reason for Absent.

B) Find out the 3 -Stage of Problem Identification
Stage1-Domain-Machine Learning
Stage2-Learning-Supervised Learning
Stage3-Classification

C) Name the project
Predict Employee job Resignation

D) Create the dummy Dataset.

INPUT										OUTPUT
Employee ID	Joining Date	Number of Projects	Last Evaluation Date	Average monthly Working Hours	Last Absent in this year	Reason of Absence	Department	Promotion	Salary	Resignation
6789980	19-05-2006	3	10-05-2023	180	20-05-2023	Medical Reason	Sales	Yes	28000	NO
6789998	27-01-2010	2	10-05-2023	168	16-08-2023	Personal Issue	Sales	No	20000	YES
6789986	10-06-2016	3	10-05-2023	180	18-01-2024	Personal Issue	Sales	No	20000	YES
6789978	19-04-2020	1	10-05-2023	200	14-05-2023	Medical Reason	Sales	Yes	15000	NO
6789932	16-03-2021	1	10-05-2023	156	15-03-2023	Personal Issue	Sales	No	15000	YES
6789956	20-05-2020	1	10-05-2023	160	11-07-2023	Personal Issue	Sales	No	15000	NO
6789989	16-08-2019	2	10-05-2023	172	26-05-2022	Personal Issue	Sales	Yes	20000	YES
6789947	18-01-2020	1	10-05-2023	178	15-11-2023	Personal Issue	Sales	No	15000	NO
6789987	14-05-2021	1	10-05-2023	210	11-02-2023	Medical Reason	Sales	Yes	15000	NO
6789999	15-03-2022	1	10-05-2023	170	19-05-2023	Medical Reason	Sales	No	15000	NO
6789981	11-07-2021	1	10-05-2023	160	27-01-2024	Personal Issue	Sales	No	15000	NO
6789985	26-05-2020	2	10-05-2023	185	10-06-2023	Personal Issue	Sales	Yes	15000	YES
6789890	15-11-2022	1	10-05-2023	178	19-04-2023	Personal Issue	Sales	No	15000	NO
6789970	11-02-2020	2	10-05-2023	150	16-03-2023	Medical Reason	Sales	No	15000	YES