**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?

Gathering Historical data on employee behavior, including start and leave

dates, shifts work hours, pay rates, lateness, sick days, and any other relevant factors

B) Find out the 3 -Stage of Problem Identification

Stage 1: Machine Learning

Stage 2: Supervised Learning

Stage 3: Classification

C) Name the project

Predicting Employee Resignation using AI

D) Create the dummy Dataset

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Employee ID | Tenure Month | Performance Rating | Work Hours | Salary | Late Hours | Sick Days | Output |
| 1 | 3.32 | 2.9 | 120 | 30000 | 14 | 10 | **Resign** |
| 2 | 3.93 | 3.2 | 190 | 53000 | 8 | 3 | **Maintain** |
| 3 | 4.80 | 3.6 | 180 | 62000 | 7 | 4 | **Maintain** |
| 4 | 4.90 | 4.8 | 240 | 57000 | 5 | 6 | **Maintain** |

Call to Action

lowest rated Employees call to-Resign

Minimum or Maximum Employees call to-Maintain