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.

1. How will you achieve this in AI?
2. Find out the 3 -Stage of Problem Identification
3. Name the project
4. Create the dummy Dataset.

Solution:

1. Collect past data of each employee like experience, performance, salary etc. Analyse and preprocess the data. Create a supervised machine learning classification model and deploy to predict which employee may resign next.
2. 3 -Stage of Problem Identification:

1.Domain Selection: Supervised Learning

2: Learning Selection: Machine Learning

3: Classification

1. Employee Resignation prediction
2. Dummy Dataset

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Employee ID | Experience | Performance rating | Attendance (%) | Workload (%) | No. of team members in the project | Weekly Working Hours | Age | Salary | Target |
| 1 | 2.3 | 4.8 | 88 | 123 | 8 | 55 | 32 | 60000 | Resign |
| 2 | 0.5 | 4 | 98 | 50 | 10 | 40 | 25 | 20000 | Working |
| 3 | 4 | 4.5 | 95 | 80 | 12 | 41 | 29 | 80000 | Working |