**Question:**

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

Answer: Employee Resigning Prediction

1. How will you achieve this in AI?

**Step 1:** Collecting All the data from client.

**Step 2:** Analysis the data and from that data we have to predict the employee Resign the job is possible or not possible.

**Step 3:** Here, the data is very clear (Input and output both are present) and it will fall under the Machine Learning- Supervised Learning method. As I’m AI engineer will do to predict and call to the action. It will more help to client for employee retention.

1. Stage 1: Machine Learning

Stage 2: Supervised Learning

Stage 3: Classification

1. Name the project : Employee Resigning Prediction
2. **Dummy Data Set:**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **S.no** | **Employee Name** | **Employee ID** | **Joining Date** | **Notice period** | **Salary level** | **promotions** | **Years of experience** | **Output label** |
| **1** | **vinothini** | **EKO123** | **13.6.2015** | **3 mon** | **mid** | **1 time** | **7-year** | **working** |
| **2** | **Raj** | **EKO243** | **8.8.2016** | **2 mon** | **low** | **nil** | **6 year** | **Resign** |
| **3** | **Madhu** | **EKO645** | **7.8.2016** | **3 mon** | **low** | **nil** | **6 year** | **Resign** |
| **4** | **priya** | **EKO766** | **14.12.2015** | **3 mon** | **mid** | **1 time** | **7 year** | **working** |
| **5** | **vimal** | **EKO199** | **6.2.2010** | **3 mon** | **high** | **3 times** | **13 year** | **working** |