#### **Problem Identification Assignments- Assignment**

**A) How will you achieve this in AI?**

We need to gather information from the customer so that we can forecast who will step down next.This will come under supervised learning. Because the requirements are defined and the clients' data is provided, making predictions is simple.

**B) Find out the 3 -Stage of Problem Identification**

Machine Learning —>Supervised Learning—>Classification

**C) Name the project?**

Resignation Forecaster

**D) Create the dummy Dataset.**

| **Job title** | **Department** | **Salary** | **Performance ratings** | **years of experience** | **Number of promotions** | **Number of past jobs** | **survey responses** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Software Engineer** | **Engineering** | **80000** | **4.5** | **3** | **1** | **2** | **8** |
| **Marketing Manager** | **Marketing** | **90000** | **4.2** | **5** | **2** | **3** | **7** |
| **Sales Representative** | **Sales** | **75000** | **3.8** | **2** | **0** | **1** | **6** |
| **Human Resources Specialist** | **HR** | **70000** | **4** | **4** | **1** | **2** | **7** |
| **Financial Analyst** | **Finance** | **85000** | **4.6** | **6** | **3** | **4** | **9** |