**Solution 1:**

1. **By analyzing the data set of Employees who are currently working, we can predict whether particular Employees are going to resign or not**
2. **Step 1: Domain: Machine Learning (By using some Numbers-data set),**

**Step 2: Learning: Supervised (As input and output is very clear),**

**Step 3: Category: Classification**

1. **Employees Retention Analysis / Prediction Status**
2. **Dummy Data Sets**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Name** | **Designation** | **Age** | **Years of Experience** | **Performance Rating(5)** | **Attributes Rating(10)** | **Retention Status** |
| **Ramesh** | **Analyst (Level 2)** | **24** | **2** | **4.6** | **6** | **Will Resign** |
| **Rajesh** | **Sr. Analyst**  **(Level 3)** | **28** | **4** | **4.0** | **5** | **Will Resign** |
| **Ajay** | **Associate (Level 1)** | **22** | **0** | **3.0** | **3** | **Won’t Resign** |
| **Vijay** | **Manager**  **(Level 5** | **35** | **8** | **4.2** | **7** | **Won’t Resign** |

**Solution 2:**

1. **Analyze**
2. **Step 1: Domain - Time Series**

**Step 2: Learning – Semi supervised Learning**

**Step 3: Category – Regression**

1. **Past Employees Attrition Analysis Status**
2. **Dummy Data Set**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Name** | **Designation** | **Age** | **Years of Experience** | **Performance Rating** | **Attributes Rating(10)** | **Reason for Resigning** |
| **Raja** | **Analyst (Level 2)** | **25** | **2** | **4.2** | **7** | **Got Abroad Opportunity** |
| **Murali** | **Sr. Analyst**  **(Level 3)** | **27** | **4** | **3.2** | **3** | **Personal Family Migration** |
| **Pawan** | **Associate (Level 1)** | **21** | **1** | **3.0** | **5** | **Higher Studies** |
| **Buvan** | **Manager**  **(Level 5** | **33** | **8** | **4.6** | **6** | **To Gain and explore new learnings** |