1. **Understanding Input & Output**

Input:

Employee Name, is he resigning this month or next?

Output:

They should arrange alternatives or not.

1. **Domain Selection**

Since the inputs are text (names and Yes/No), it will be Natural Language Processing

1. Three stages of Problem Identification

* Domain selection – **NLP**
* Learning type – Problem statement is clear. Input & output are clear. So, it will be **Supervised Learning**
* **Classification** since we have to categorize as alternatives needed or not.

1. Name of the project

**Creation of backup plan for resigned employees**

1. Dummy Dataset

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Input** | | | | **Output** |
| **Employee ID** | **Employee Name** | **Is he planned to resign this month or next month** | **If he is resigning, what is the job end date?** | **Action** |
| 12345 | Daniel | Yes | 12-Dec-23 | Create a backup plan |
| 778899 | Josh | No | Not Applicable | Backup is not needed now |
| 567890 | Sam | Yes | 30-Nov-23 | Create a backup plan |
| 234567 | Sarah | No | Not Applicable | Backup is not needed now |