1) Requirement is Clear, need to identify the employee who is resigning next.

Lets consider Notice period of that company is 1month. Within one month his position has to be replaced with another resource.

So we must know the position and date of resignation.

2)

First stage- Domain selection.

Since Date is involved the dataset i consider this as **Time series Analysis**

Second stage- learning method.

From all the employee only few will resign so i consider **Semi-Supervised**

Third stage- Regression or Classification

Since date as output i consider **Regression**.

3) Title - Human Resource Recruitment

4) Dataset for all employees

|  |  |  |
| --- | --- | --- |
| Employee name | Designation | Date of Resignation |
| Employee1 | Software Engineer | 30-08-2024 |
| Employee2 | QA |  |
| Employee3 | Technical Lead | 25-08-2024 |
| Employee4 | Product Manager |  |

Here output column having partial data so converting this Semi-Supervised dataset into Supervised dataset

|  |  |  |
| --- | --- | --- |
| Employee name | Designation | Date of Resignation |
| Employee1 | Software Engineer | 30-08-2024 |
| Employee3 | Technical Lead | 25-08-2024 |

So we need to replace the Positions with another resource within 1 month from the date of resignation.