**A)** Way to achieve this in AI

Based on the below table (dummy dataset) we are able to say the employment status is either

“Resign” or “Not Resign”. If we bring new data points right from “Emp# to Recent increment”

then our system must have learnt from the past, thus able to tell whether an employee going to

“Resign” or “Not Resign”.

**B)** Since it involves numerical, hence selection of ML would be optimal.

**ML** -> **Supervised** (IP/OP given) -> **Classification** (Dependent variable is Categorical)

**C)** Employee resignation Predictive system.

**D)** Dummy data set based on the given problem.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Emp#** | **EmpName** | **Title** | **Date of Joining** | **Salary** | **Recent increment** | **Employment Status** |
| 1 | A | Supervisor | 01-Jan-18 | 22,000 | 10% | Resign |
| 2 | B | Foreman | 02-May-22 | 18,000 | 11% | Not Resign |
| 3 | C | Technician | 13-Jun-05 | 15,000 | 11.50% | Not Resign |
| 4 | D | Mechanic | 04-Dec-19 | 19,500 | 10.75% | Resign |