**Hope Artificial Intelligence**

Scenario Based Learning

A company works with number of employees, all the works are dependents on the employees. Even if one of the employees resign the job immediately then assigned work will be not finished at the time, so delivery of the project to the clients will be delayed. Company planned to make solution for this, they want to know which employee may resign next. If they know previously, they can arrange alternative to avoid such problem. As an AI Engineer you must give Solution to this.

A) How will you achieve this in AI?

B) Find out the 3 -Stage of Problem Identification

C) Name the project

D) Create the dummy Dataset

**Solution**:

The user input will be date of relieving, so the domain will be **Time series Analysis**.

Supervised Learning with **Classification**.

Based on user input date we can calculate the number of days the user is going to relieve.

Name of Project: **Job Resigning Prediction**.

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| S.No | Employee Name | Job Joined Date | Year of Exp in company | Leaves taken so far | Whether leaves taken frequently in a month | Regular comer to ofc/not | Performance | Any certifications done recently |
| 1. | AAA | 20-03-2022 | 3.5 | 22 | yes | Not | Medium – Dependent on somebody | yes |
| 2. | BBB | 23-03-2021 | 4.5 | 31 | No | Yes | Meeting Expectation | Not |
| 3. | CCC | 20-02-2024 | 1.4 | 7 | No | Yes | Average | Not |
| 4. | DDD | 10-06-2023 | 2 | 18 | No | Yes | Medium | Yes |
| 5. | EEE | 15-09-2020 | 4.9 | 52 | Yes | Yes | Exceeding Expectation | Yes |
| 6. | FFF | 12-08-2018 | 6.9 | 82 | No | No | Meeting Expectation | Yes |
| 7. | EEE | 10-09-2020 | 4.8 | 62 | Yes | No | Meeting Expectation | Yes |