**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 not be 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 a AI Engineer you must give Solution to this.

1. How will you achieve this in AI?

**Model Creation(Learning process) – Prediction – Product/Deployment/Implementation(Call to Action)**

1. Find out the 3-Stage of Problem Identification

**Stage-1: Machine Learning**

**Stage-2: Supervised Learning**

**Stage-3: Classification**

1. Name the project

**Employee Resignation Prediction**

1. Create the dummy Dataset

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Gender** | **Age** | **Absenteeism at work** | **No. of years working in the company** | **Employee satisfaction Level** | **Salary** | **Workplace Accident** | **Work life Balance** | **Promotion Received in last 5 years** | **Target Achievement** | **Punctuality** | **Output** |
| Male | 32 | Low | 5 | Medium | Medium | yes | Medium | 0 | High | Medium | Not Resign |
| Female | 27 | High | 3 | Medium | Low | No | Low | 0 | Medium | Medium | Resign |
| Male | 45 | Medium | 10 | High | High | No | High | 1 | Medium | High | Not Resign |