**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

A) We have to predict Employee may have resigned or not based on companies’ database history. (variables are Age, no.of experiences, Department, certification, salary). My call to action is if he got low salary with proper certification and age above 30 also, he may resign the job. Otherwise he is in 25 to 30 experience is 1 or 2 years certification not passed, he may not resigned.

B) Find out the 3 -Stage of Problem Identification

* The inputs are given in number format like (employee’s age, salary,year of experiences and education) so we can select either **Machine learning or Deep Learning.**
* Input and output are well defined and Requirement is clear, so it is **supervised Learning , Classification**

1. Input and output are this age people may get this salary of experiences won’t have resigned.
2. Requirement is Employees May Resigned or Not Resigned.

c) Name of the project: Employee resign prediction

D) Create the dummy Dataset

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| --- | --- | --- | --- | --- | --- | --- |
| Age | Salary | department | Education | Certification | No.of experience | Resigned /not Resigned |
| 27 | 30000 | Testing | UG-B.sc | Pass | 2 | Not Resign |
| 32 | 32000 | Developer | PG-MSC | Pass | 4 | Resign |
| 34 | 29000 | Support | UG-B.E | Not pass | 3 | Not resign |