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?

Answer: In this scenario, we can’t predict the human mindset exactly. If we have the data set of the Employees’ names, Years of experience, 3 months of the employee performance level in percentage, and level of consistency. Based on these data, the output can be made as clusters can predict the employees would resign immediately.

A mixture of data set with numbers and text. The performance is rated in the percentage known as numbers, however, the level of consistency can be defined in the text. The output prediction is related to the level of consistency in the form of categorical data whether it would be resigned or not.

B) Find out the 3 -Stage of Problem Identification

Answer: Natural Language Processing-Unsupervised-Classification

C) Name the project: Employees’ immediate resignation Prediction

D) Create the dummy Dataset.

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Employees’ names | Years of experience | 3 months of the employee performance level in % | | | level of consistent Performance | Output-Resignation Level | | |
| 1 | 2 | 3 | Low | Not sure | High |
| A | 5 | 50 | 60 | 70 | Increased | Yes |  |  |
| b | 2 | 30 | 20 | 30 | Fluctuated |  | Yes |  |
| C | 1 | 20 | 30 | 40 | Increased | Yes |  |  |
| D | 7 | 40 | 50 | 30 | Decreased |  |  | Yes |
| E | 3 | 40 | 40 | 40 | Neutral |  | Yes |  |
| F | 4 | 50 | 30 | 20 | Decreased |  |  | Yes |