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.

Project name: Employee Job Resignation Prediction

Stage 1: (Domain selection)

The requirement is clear. This is predicted to an employee is job relieving possible or not possible.

01. This project is written domine for Machine Learning. Because this dataset is fully used numbers.

02.Machine Learning prediction is not satisfied, so we will try Deep Learning.

03. This is not Text Format, so this is not suitable for NLP.

04. This is not a based project. So this is also not suitable for TSA.

Stage 2: (Learning selection):

This project Requirement is clear, so this is suitable for Supervised Learning.

Stage 3:

This output is a categorical data type, so this is classification.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| S.No | Employee number | Age | Education | Experience  (Years) | Home distance  (Kms) | Working dates | Working hours | Job resign possible |
| 01. | 1301 | 42 | B. E | 10 | 2 | 24 | 230 | No |
| 02. | 1302 | 26 | B.Sc. | 2 | 15 | 17 | 145 | Yes |
| 03. | 1303 | 32 | M.sc | 6 | 5 | 22 | 198 | No |
| 04. | 1304 | 38 | MTech | 7 | 5 | 24 | 223 | No |
| 05. | 1305 | 29 | MTech | 4 | 8 | 22 | 192 | No |
| 06. | 1306 | 40 | B. E | 10 | 1 | 25 | 240 | No |
| 07. | 1307 | 34 | B. E | 5 | 4 | 25 | 230 | No |
| 08 | 1308 | 28 | M.com | 6 | 9 | 22 | 185 | Yes |
| 09 | 1309 | 36 | M.sc | 7 | 6 | 23 | 210 | No |
| 10 | 1310 | 27 | M.E | 2 | 18 | 20 | 180 | Yes |

Stage 1(Domain selection): Machine Learning.

Stage 2(Learning selection): Supervised Learning.

Stage 3: Classification.

Prediction: Employee job resignation prediction

Call to action:

Job resignation possible:

Don’t give urgent work to that person. Do that project without delay to assign the new candidate or other team.

Job resignation not possible:

That person continues the work.