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, the prediction is whether the employee would resign or not. The data set includes the employees’ names, ID, date of joining, years of experience, last and current years’ appraisal points, last and current salary, supervisor performance rating, employees’ satisfaction level of the appraisal, and level of consistency. Based on these data, the output can be made as clusters can predict the employees would resign immediately.

All the data contains the numerical values. And we have clear requirements for the output and all the inputs are defined clearly.

B) Find out the 3 -Stage of Problem Identification

Answer: Machine Learning-Supervised-Classification

C) Name the project: Employees’ immediate resignation Prediction

D) Create the dummy Dataset.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Input | | | | | | | | | | | | | | | Output |
| Employee name | ID | DOJ | Year of Experience | Current project | Last Year Designation | Current Year Designation | Last Year Appraisal rating | Current year Appraisal rating | Last year Salary | Current Salary | % Increment | Performance rating | Consistency Performance | Employees's Satisfaction | Resigned |
| Ellamaran Palaniappan | 68 | 02-Aug-12 | 11Y 10M 9D | IT Admin | Sr. Coordinator- Facility and System Admin |  | 3.02 | 3.2 | 43000 | 49000 | 14% | A a | Good | Good | No |
| Samuel Durai Joshua Joshua | 98 | 01-Jul-13 | 10Y 11M 10D | Modelling/DK3 | BIM - Executive Engineer |  | 3.06 | 3.38 | 38400 | 42900 | 12% | I c | Good | Good | No |
| Habibudeen Kamaludheen | 110 | 05-Feb-14 | 10Y 4M 6D | NW CAD | GIS - Engineer |  | 3.05 | 3.05 | 27700 | 31900 | 15% | II b | Good | Good | No |
| Paarthiban Raveendran | 116 | 06-Mar-14 | 10Y 3M 5D | IT Admin | Ass.Coordinator- Facility and System Admin |  | 3.38 | 3.17 | 37700 | 42700 | 13% | A b | Good | Good | No |
| Kingslin Ingersal | 128 | 08-Jul-14 | 9Y 11M 3D | CEDUP | GIS - Sr. Operator |  | 2.53 | 2.13 | 22200 | 23700 | 7% | IV b | Not Good | Not Good | Yes |
| Srithar Shellappa | 131 | 07-Aug-14 | 9Y 10M 4D | DART MANU | GIS - Engineer |  | 2.76 | 3.07 | 31500 | 35000 | 11% | III b | Good | Good | No |
| Arockiaraj Thivyanathan | 138 | 03-Nov-14 | 9Y 7M 8D | CEDUP | GIS - Assistant Engineer |  | 2.57 | 2.2 | 25700 | 27700 | 8% | IV a | Not Good | Not Good | Yes |
| Manikandan Elavarasan | 139 | 03-Nov-14 | 9Y 7M 8D | NW CAD | GIS - Executive Engineer |  | 3.10 | 3.36 | 33000 | 38000 | 15% | I c | Good | Good | No |
| Sathish Tamilmani | 148 | 02-Feb-15 | 9Y 4M 9D | LWL/BLK | GIS - Executive Engineer-LWL Project Coordinator |  | 2.88 | 2.83 | 30500 | 34500 | 13% | S IV | Not Good | Not Good | Yes |
| Rajkumar Ulaganathan | 164 | 04-May-15 | 9Y 1M 7D | Sketches | GIS - Sr. Operator |  | 2.50 | 1.88 | 21600 | 23100 | 7% | IV c | Not Good | Not Good | Yes |
| Vinoth Kumar Chandrasekaran | 168 | 04-May-15 | 9Y 1M 7D | NW CAD | GIS - Executive Engineer |  | 3.48 | 3.2 | 33700 | 38700 | 15% | I b | Good | Good | No |
| Dinesh Kumar Kumaravel | 191 | 03-Mar-16 | 8Y 3M 8D | LWL | GIS - Engineer |  | 2.81 | 3.27 | 27600 | 31100 | 13% | III a | Not Good | Not Good | Yes |
| Twinkle Samson John Maria Vincent | 193 | 01-Jun-16 | 8Y 0M 10D | LWL | GIS - Engineer |  | 2.94 | 3.45 | 27000 | 30500 | 13% | III a | Not Good | Not Good | Yes |
| Samuel Edwin | 199 | 05-Aug-16 | 7Y 10M 6D | Modelling | BIM - Modular Leader |  | 3.00 | 3.05 | 35800 | 41800 | 17% | S II | Good | Good | No |
| Renuka Devi Ganesan | 217 | 01-Jun-18 | 6Y 0M 10D | BQNS | GIS - Assistant Engineer-BQNS Project Coordinator |  | 2.91 | 2.73 | 23900 | 28400 | 19% | S IV | Not Good | Not Good | Yes |
| Sivagami Devendran | 218 | 01-Jun-18 | 6Y 0M 10D | DART MANU | GIS - Assistant Engineer |  | 2.96 | 3.05 | 22500 | 26500 | 18% | II b | Not Good | Not Good | Yes |
| Rohinth Jayakumar | 225 | 15-Jun-18 | 5Y 11M 27D | NW CAD | GIS - Engineer |  | 3.47 | 3.3 | 28000 | 33000 | 18% | I c | Good | Good | No |