Salifort Motors

Employee Retention Project

Overview

Salifort Motors aims to enhance employee retention by addressing the question: What factors are most likely to cause employees to leave the company?

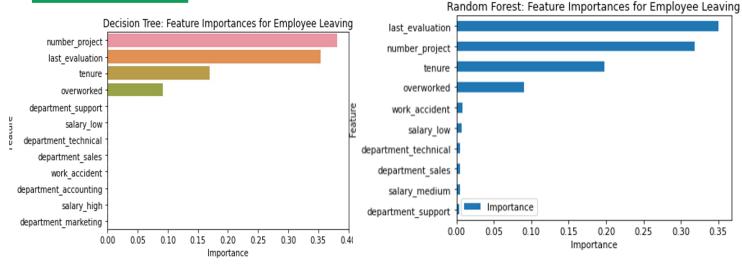
Response

Given that the target variable is categorical, the team considered building either a logistic regression model or a tree-based machine learning model. The random forest model performed slightly better than the decision tree model.

Impact

This model predicts whether an employee is likely to leave and identifies the most influential factors. These insights enable HR to make informed decisions to enhance employee retention.

Details



Barplot shows the most relevant variables: 'last_evaluation', 'number_project', 'tenure' and 'overworked'.

In the random forest model above, 'last_evaluation', 'tenure', 'number_project', 'overworked', 'salary_low', and 'work_accident' have the highest importance. These variables are most helpful in predicting the outcome variable, 'left'.

Next Steps

- Limit the number of projects per employee.
- Promote or investigate dissatisfaction among employees with over four years of tenure.
- Reward long hours or reduce the expectation of extended work.
- Clarify overtime pay policies and expectations for workload and time off.
- Facilitate discussions on company culture both broadly and within teams.
- Implement a fair evaluation system, rewarding effort proportionately rather than based solely on hours worked.