# **Salifort Motors**

**Employee Retention Project** 

## > ISSUE / PROBLEM

Salifort Motors seeks to improve employee retention and find the factors that influences employee Attrition.

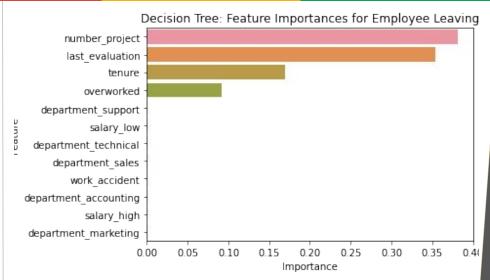
#### RESPONSE

Since the variable we are seeking to predict is categorical, the team could build either a logistic regression or a tree-based machine learning model.

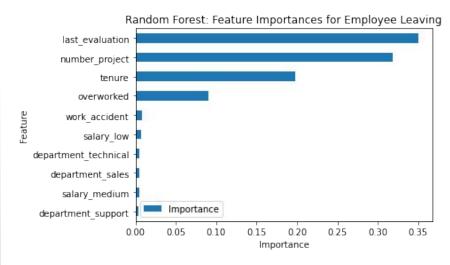
The random forest model slightly outperforms the decision tree model.

#### IMPACT

This predictive model assists in determining if an employee will depart and highlights the most influential factors. Such insights empower HR to enhance employee retention through informed decision-making.



Barplot above 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`.

### INSIGHTS/NEXT STEPS

To enhance employee retention, stakeholders could consider the following recommendations:

- Limit the number of projects per employee.
- Promote employees with four or more years of tenure or investigate their dissatisfaction.
- Offer incentives for longer hours or eliminate mandatory overtime.
- Ensure clarity on overtime pay policies and workload expectations.
- Conduct discussions to improve company culture.
- Implement fair evaluation criteria irrespective of monthly work hours.