

# Salifort Motor

## Employee Churn Prediction

### Project Overview

To predict whether an employee will leave the company using statistical model like logistic regression or machine learning model such as decision tree, random forest, XGBoost.

### Key Insights

#### Key Findings

- Employee satisfaction is the strongest predictor of turnover.
- Work-related factors (tenure, project load, hours) significantly impact retention.
- Department and salary level have moderate influence on turnover.
- Performance evaluations correlate with turnover decisions.

#### Business Recommendations

##### Immediate Actions

- Implement regular satisfaction surveys and feedback sessions
- Review workload distribution for employees with multiple projects
- Develop clear career progression paths based on tenure milestones

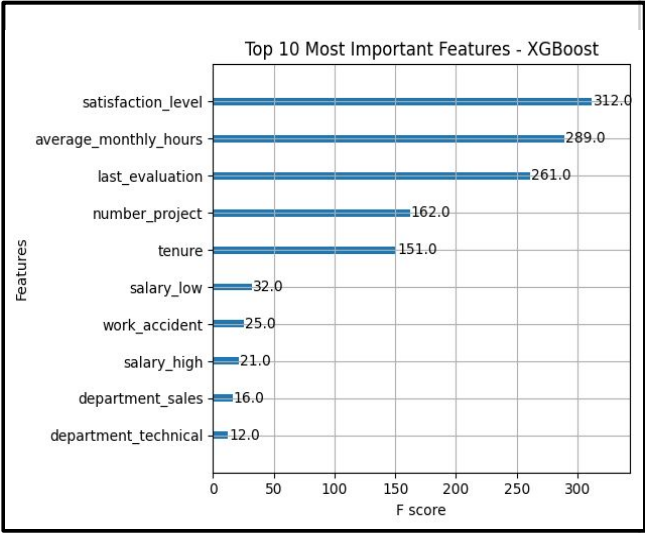
##### Policy Changes

- Establish workload limits (number of concurrent projects)
- Create structured promotion and salary review cycles
- Implement work-life balance initiatives to manage monthly hours

##### Department-Specific

- Focus on R&D and Management departments where turnover risks are higher
- Review salary structures, particularly for high-risk departments

### Details



Top 10 Important Features - XGBoost Model

### Next Steps

- Deploy XGBoost model for ongoing turnover risk assessment.
- Set up regular model performance monitoring.
- Collect additional data on:
  - Employee feedback
  - Project complexity
  - Team dynamics
  - Work-life balance metrics