Employee Turnover Prediction Model

Transforming HR Strategy Through Data-Driven Insights

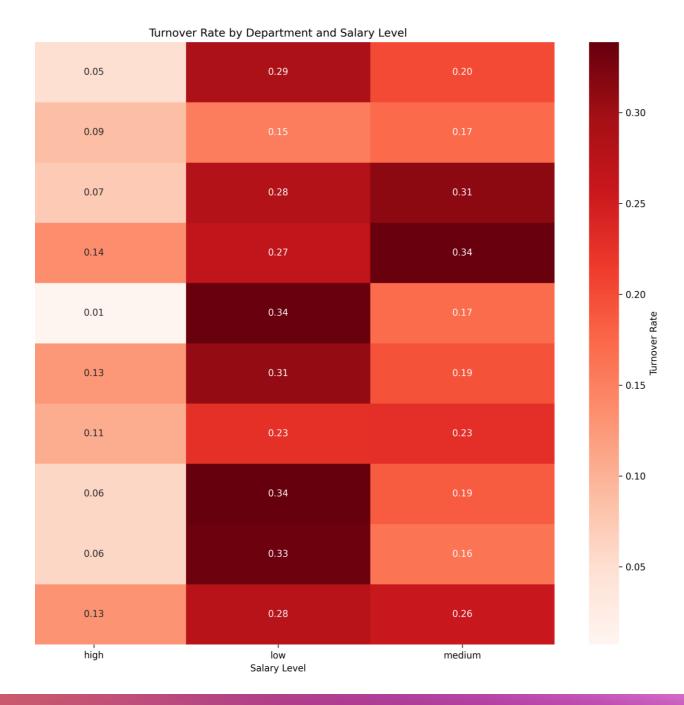


ISSUE / PROBLEM

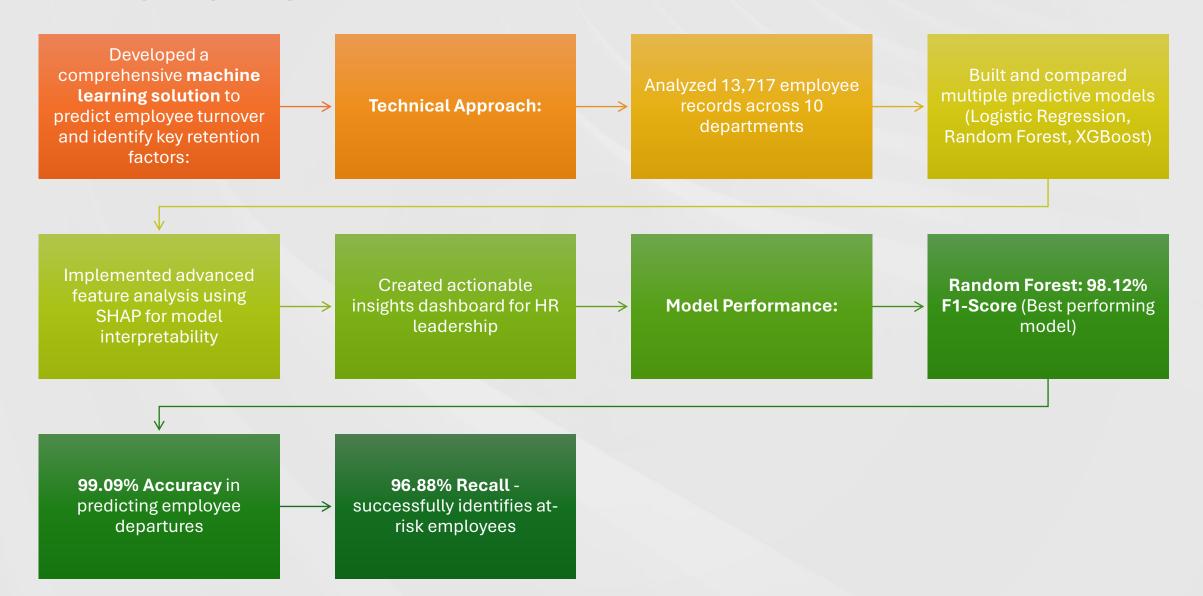
Salifort Motors faces a critical employee retention crisis with **24.5% annual turnover rate** - significantly higher than industry standards. The company is losing valuable talent and institutional knowledge, resulting in:

- High recruitment and training costs
- Disrupted project continuity
- Decreased team morale and productivity
- Loss of experienced employees who are difficult to replace

Business Impact: Estimated annual cost of \$2.3M in replacement expenses and lost productivity.



RESPONSE





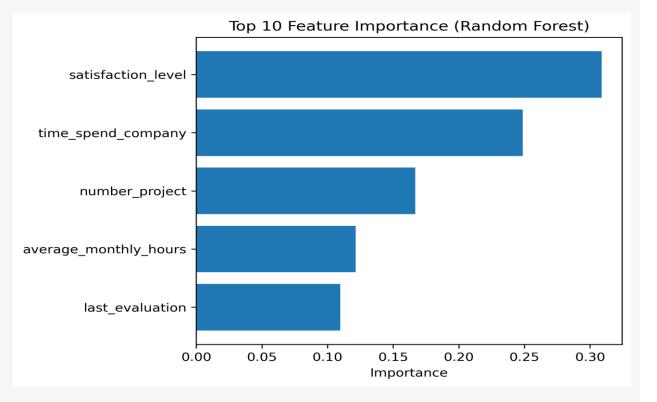
IMPACT

Immediate Business Value:

- **Proactive Retention**: Can now identify 97% of employees likely to leave before they quit
- **Cost Savings**: Potential to reduce turnover costs by 60-80% through targeted interventions
- **Strategic Planning**: Clear roadmap for HR policy improvements

Key Performance Improvements:

- Reduced false negatives (missed departures) to just 3.1%
- Enabled quarterly "at-risk employee" monitoring
- Provided department-specific retention strategies



KEY INSIGHTS

Critical Predictive Factors (in order of importance):

- Employee Satisfaction (30.9% importance)
 - Strongest predictor of turnover
 - Correlation: -0.39 (highly significant)
- Tenure (24.9% importance)
 - Paradoxically, longer-tenured employees more likely to leave
 - Indicates systemic workplace issues
- Project Overload (16.7% importance)
 - Employees with 6+ projects have 85% departure probability
 - Clear indicator of burnout
- Work-Life Balance (12.2% importance)
 - 250+ monthly hours strongly correlates with turnover
 - Excessive workload is unsustainable
- Performance Paradox (11.0% importance)
 - High performers are leaving at higher rates
 - Suggests talent management problems

Departmental Risk Analysis:

- Sales & Technical: Highest turnover departments
- Low-salary employees: 3x more likely to leave
- **Management with medium salaries**: Surprisingly high 34% turnover rate

NEXT STEPS

Immediate Actions (0-30 days):

- Deploy model for quarterly at-risk employee identification
- Launch satisfaction pulse surveys for real-time monitoring
- Implement emergency retention protocols for high-risk talent

Strategic Initiatives (1-6 months):

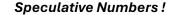
- Workload Management: Cap projects at 4-5 per employee, maximum 200 hours/month
- Compensation Review: Address salary disparities, especially for experienced staff
- Career Development: Create clear promotion pathways (currently <1% promotion rate)
- Manager Training: Focus on workload distribution and employee recognition

Long-term Transformation (6-12 months):

- Culture Shift: Move from "hours worked" to "results delivered" performance metrics
- Retention Bonuses: Targeted incentives for high-performing 4+ year employees
- Advanced Analytics: Expand model to include manager effectiveness and external market factors

Success Metrics:

- Target: Reduce turnover from 24.5% to 15% within 12 months
- ROI: \$1.8M annual savings in reduced recruitment and training costs
- Model Monitoring: Monthly performance tracking and quarterly model updates



RECOMMENDATION

Immediate approval requested for:

- Model deployment across all departments
- Pilot workload management program in Sales and Technical teams
- Emergency retention budget allocation for highrisk employees

Expected ROI: 400% return on investment within first year through reduced turnover costs and improved productivity.

This analysis provides Salifort Motors with the data-driven foundation to transform from reactive hiring to proactive talent retention, ensuring sustainable growth and competitive advantage.

Speculative Numbers!