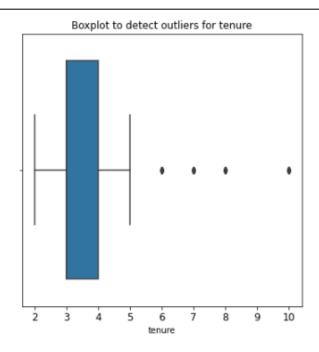
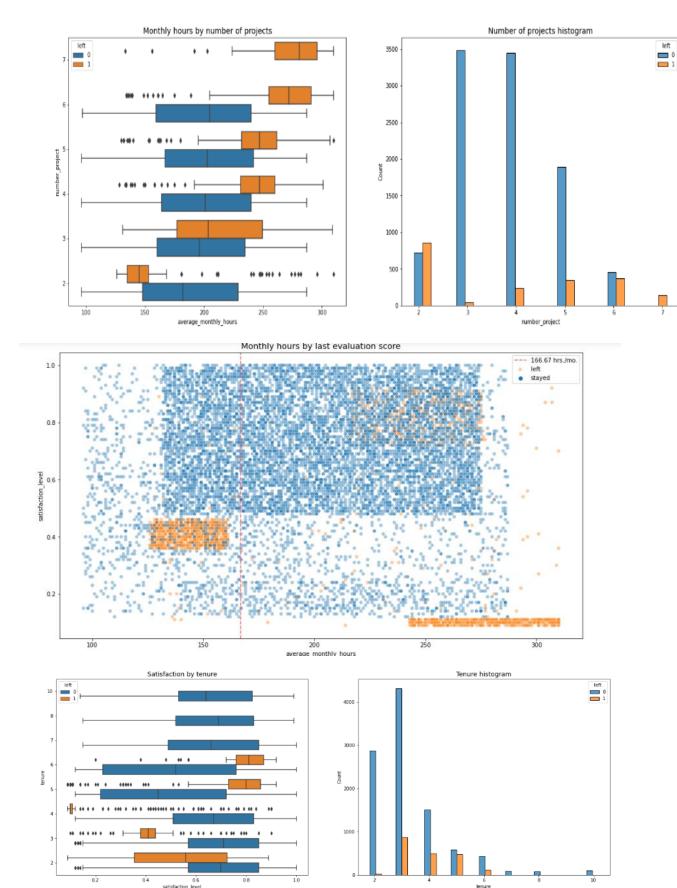
The visualizations from the Python lab in Jupyter Notebook provide a comprehensive overview of the dataset, highlighting key insights into employee turnover at Salifort Motors.

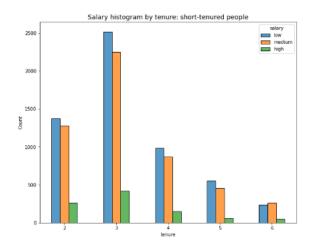
- 1. **Correlation Heatmap**: Displays relationships between numerical features, identifying satisfaction level and average monthly hours as significant predictors of turnover.
- 1. **Department Analysis**: Bar plots showcasing turnover rates across departments reveal that specific teams, such as "Technical" and "Support," experience higher turnover.
- 2. **Satisfaction Levels**: Histograms illustrate the distribution of satisfaction scores, revealing that employees with lower satisfaction are more likely to leave.
- 3. **Workload Distribution**: Scatter plots of average monthly hours and number of projects indicate that employees with excessive workloads exhibit higher turnover rates.
- 4. **Salary Insights**: Stacked bar charts show turnover trends by salary tiers, suggesting that employees with "low" salaries are disproportionately affected.
- 5. **Tenure Analysis**: Line graphs charting time spent at the company highlight tenure thresholds where dissatisfaction peaks.

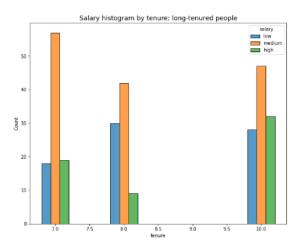


The boxplot above shows that there are outliers in the tenure variable.

It would be helpful to investigate how many rows in the data contain outliers in the tenure column.

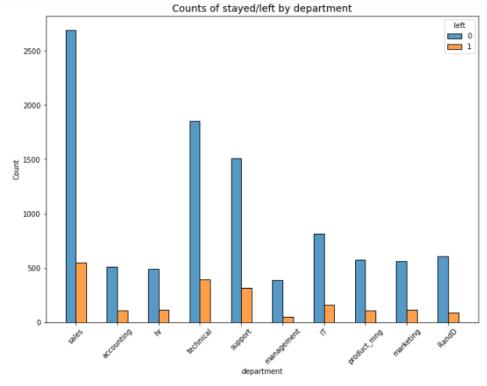


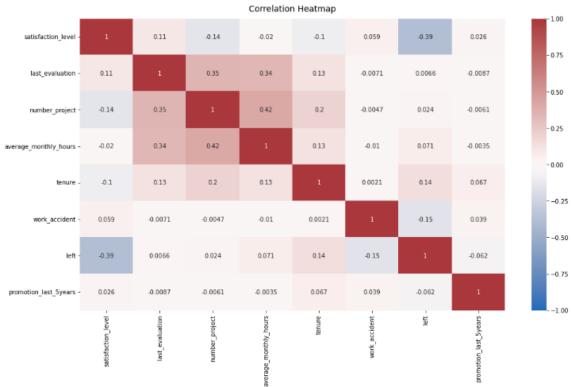


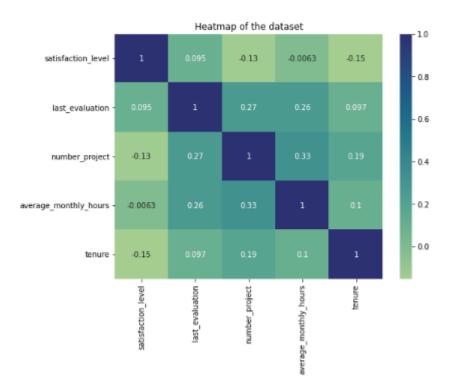


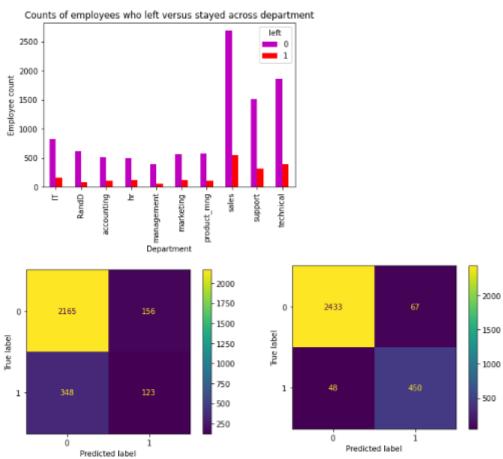












## Decision tree splits



