Employee Churn Analysis

Analyzing and predicting employees behavior with Al Bassel Isaak Murilo 11/04/2025

The Challenge

- The struggle companies have on understanding how to keep their employees and what might lead to them churning.
- Identifying employees at risk of leaving allows organizations to implement targeted retention strategies would be a good solution to save costs.

Our Solution

- Using Al we have made an application that can:
 - Show employees information in vast details and precision.
 - Adapt to different dataset sizes.
 - Display the data in easily comprehensible graphs.
 - Perform pattern analysis.
 - Predict the possibility of churning based on the subject characteristics.

How It Works

- 1. Dataset Upload Start with uploading your dataset.
- 2. Exploratory Data Analysis (EDA) Observe the data structure checking for any missing values, outliers or features that can compromise the target variable.
- 3. Pattern Analysis try to understand patterns in data and draw insights out of it.
- 4. Prediction Based on the conclusions from the previous step, make predictions on the likelihood of churning.
- 5. Evaluation of the system for constant improvement of our model

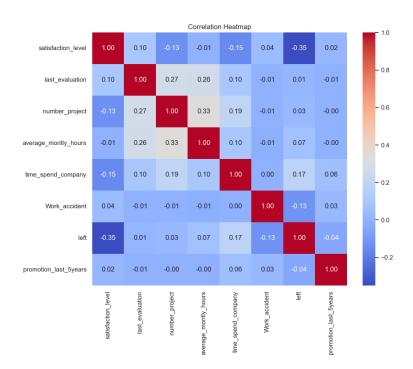
Business Benefits

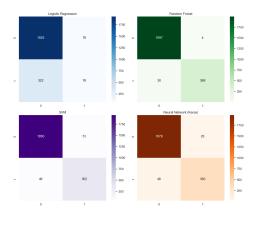
- Quick and reliable predictions.
- Affordable and accessible.
- Versatile and easy to implement.

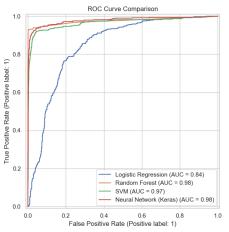
Use Cases

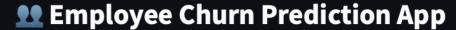
- Targeted Retention: Identifying at-risk employees to implement personalized retention strategies.
- Resource Allocation: Focusing efforts on departments or roles with higher predicted churn rates.
- Policy Evaluation: Assessing the impact of workplace policies on employee retention.
- Visualize and draw insights from the employee's dataset.

Example

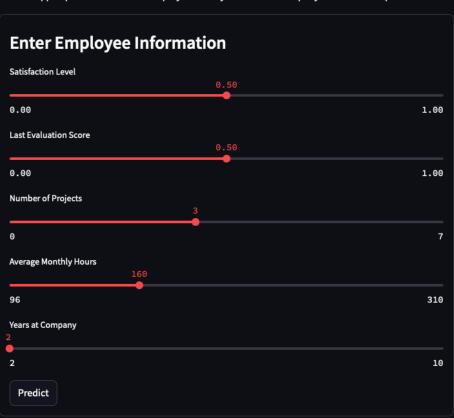






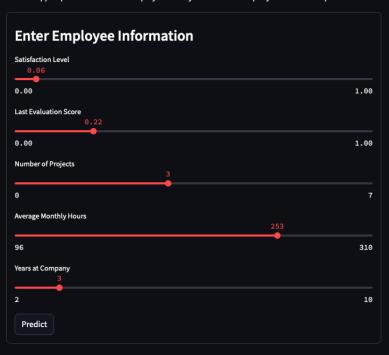


Use this app to predict whether an employee is likely to leave the company based on their profile.



!!! Employee Churn Prediction App

Use this app to predict whether an employee is likely to leave the company based on their profile.



Prediction Result

This employee is likely to leave.

Model: Tuned Random Forest