

Salifort Motors Employee Survey Analysis

Overview

Model employee departure using employee survey data to help increase employee retention.

Milestones	Tasks	PACE stages
Create a project proposal	Brainstorm problems, questions, solutions, expectations, deliverables and project workflow.	Plan
Create a Jupyter notebook	Load packages and dataset, explore data format and structure, clean unnecessary records and fields, identify outliers.	Analyze
Exploratory data analysis	Compile summary information about the data, get descriptive stats on the data, identify potential variables, make relevant visualizations. Create new features.	Analyze
Build logistic regression model and evaluate	Decide on predictor and target variable(s), encode categorical variables, determine if model assumptions have been met. Create model. Print and evaluate prediction results	Construct & Evaluate
Build random forest model and evaluate	Decide on predictor and target variable(s), encode categorical variables, determine if model assumptions have been met. Create model. Determine feature importance. Print and evaluate prediction results	Construct & Evaluate
Complete executive summary	Articulate findings in executive summary to stakeholders.	Evaluate