

Voluntary Attrition Risk Modeling

ML Models



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Topics Covered

- An overview of a voluntary attrition risk machine learning model
- Important considerations before beginning the model-building process
- Step-by-step instructions for building a voluntary attrition risk model in One AI with a recipe
- Insights that can be drawn from a voluntary attrition risk model



Learning Outcomes

You will:

- Understand what a voluntary attrition risk model is & its purpose
- Gain insights into key considerations before starting the model-building process, including defining business objectives, assessing data quality, & ensuring bandwidth for model maintenance
- Know the step-by-step instructions to build a voluntary attrition risk model in One AI
- Be equipped to interpret insights from voluntary attrition risk models & understand how to go beyond the predictions towards drivers





Overview & Purpose

- Predicts the likelihood of an employee voluntarily terminating within a selected period of time
 - Also known as a flight risk model
 - Uses attributes such as employee demographics, job satisfaction,
 performance metrics, engagement, & compensation to predict risk level
 - Binary classification
 - 2 possible outcomes: voluntary termination or voluntary retention
- Often applied to retention planning, resource allocation, succession planning, & cost reduction



Considerations Before Model Building

Considerations Before Building

- Business objectives & goals
 - What outcomes do you hope to achieve?
 - Confirm hypotheses, exploratory analysis, or model duplication?
- Data availability & quality
 - Does your organization have a voluntary attrition problem?
- Bandwidth
 - Model creation is easy; maintenance & effective visualization requires time, resources, & planning







Insights Drawn

Predictions in the Results Explorer



Individual insights and aggregated insights



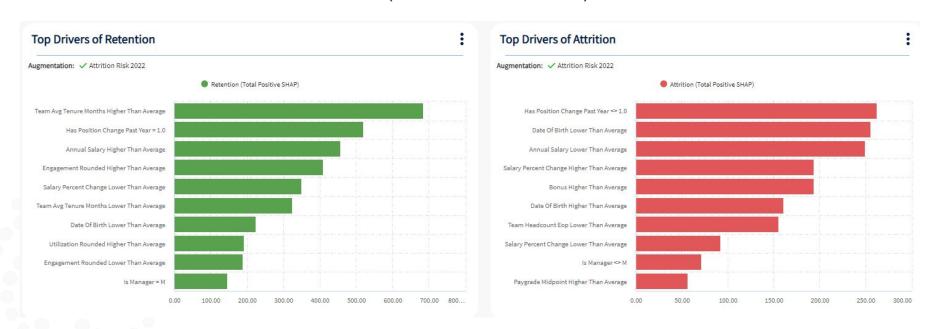
Correlation data from the EDA report





Insights Drawn

Drivers for **both** classes (Retention & Attrition)

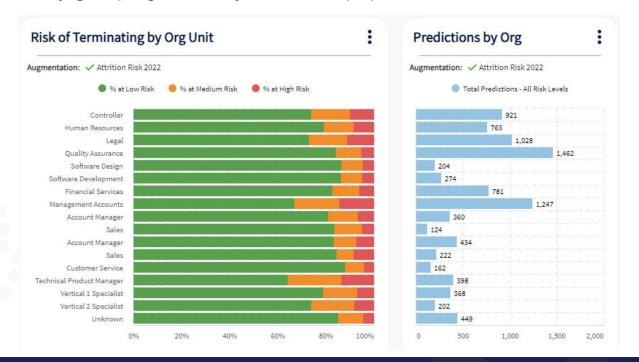






Insights Drawn

Risk by groupings within your model population







Thanks for watching!

