

#### One Al

# High Performer Likelihood Modeling

#### Machine Learning



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## **Topics Covered**

- Overview of the high performer machine learning model
- Key considerations before beginning the model-building process
- Step-by-step instructions for building a high performer likelihood model in One AI with a recipe
- Important insights that can be drawn from this type of model





# **Learning Outcomes**

You will:

- Understand & address important considerations before beginning the model-building process, ensuring effective & accurate predictions
- Confidently create a high performer likelihood model that is relevant to your organization using the One AI recipe
- Utilize the insights drawn from the model to identify & develop high-potential employees, optimize performance management strategies, & enhance overall productivity





#### **Overview & Purpose**



#### **Overview**

- Predicts the likelihood of whether an employee will be a high performer during a specified amount of time
  - Uses attributes such as employee demographics, engagement, previous performance metrics, manager's/team performance metrics
  - Binary classification
    - 2 possible outcomes: high performer or not high performer
  - Instances are employees, typically identified by person ids from the employee table
  - Results include predictions as well as top drivers for each outcome





#### **Use Cases**

- Talent identification & development
  - Succession planning
  - Training & development
- Performance management
- Recruiting & hiring
- Retention strategies
- Team composition & dynamics





## 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
- Organizations' performance cycles
- Bandwidth & resources
  - Model creation is easy; maintenance & effective visualization requires time,
    resources, & planning





#### How to Build in One AI





• Predictions in the Results Explorer

Messages	Recipe Configuration	Run Configuration	EDA	Results Summary	Results Explorer
Search by ru	n_id				
run_id 🗕		dataset_id <del>-</del>	label_pred	liction -	
9dc0a488-b	8dd-403b-b678-27e68eebad	8c 0000088	High Perfo	rmer	
	8dd-403b-b678-27e68eebad	8c 00000155	Not High P	erformer	
9dc0a488-b	000-4030-0010-21e00ee0au				

#### • Individual insights & aggregated insights

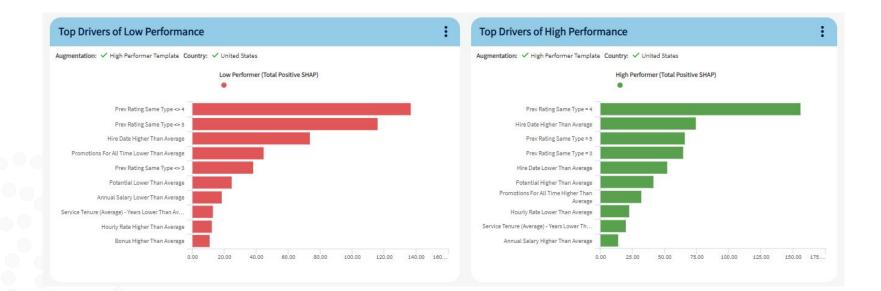
Feature Name	Feature Type	Directional Impact *	Value	Mean Value	Explanation
Team Avg Tenure Months: (scaled)	Numeric	-0.147	1.1538	0.942	Aaden's Team Avg Tenure Months: (scaled) value of 1.1538 is greater than the mean and contributes 0.1470 against the prediction of him terminating in the next year
Salary Percent Change: (scaled)	Numeric	-0.0669	0.3539	0.3756	Aaden's Salary Percent Change: (scaled) value of 0.3539 is less than the mean and contributes 0.0669 against the prediction of him terminating in the next year

#### • Correlation data from the EDA report





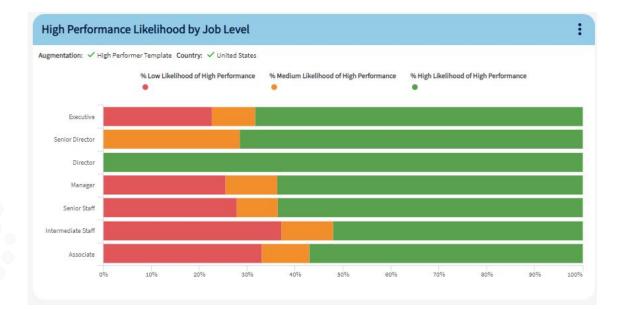
• Drivers for **both** classes (Low Performance & High Performance)







• Risk by groupings within your model population

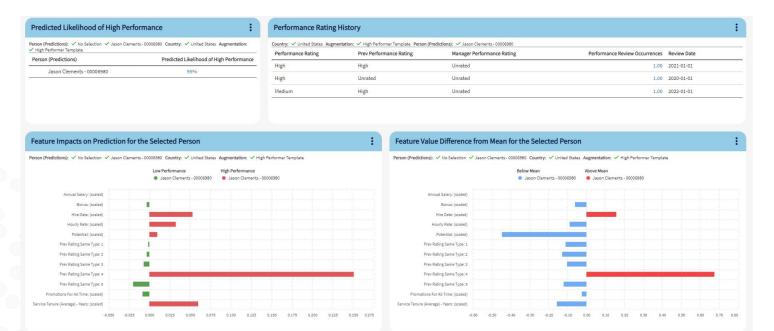






# **Insights for Individuals**

• Insights for individual employees within your model population







• By-name lists of folks predicted to be high performers (or low performers)

Des Halt		rmer Template Job Level: ✓ Man.		Candar	Current Dation	Den deux Datie e	Harrison
Org Unit	Time Periods	Full Name	Associate ID	Gender	Current Rating	Previous Rating	Manager
Controller	2024-06-21	Selah Whiting	00017175	Male	4	4	Nova Little
Controller	2024-06-21	Aliya Fairbanks	00008081	Female	4	5	Preston Peck
Controller	2024-06-21	Camryn Clay	00042068	Male	3	?	Derrick Pettit
Controller	2024-06-21	Jeffrey Connor	00027299	Male	3	4	Lailah Betts
Legal	2024-06-21	Conor Knox	00000153	Male	4	3	Zaid Parrish
Legal	2024-06-21	Gannon Paddock	00005848	Male	4	4	Nahla Jefferson







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# **Thanks for watching!**

