

Custom Regression Model

Machine Learning



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Topics Covered

- Custom / Advanced modeling in One AI
- Overview of a Salary Prediction Regression model
- Key considerations before beginning the model-building process
- Step-by-step instructions for building Custom / Advanced models in One AI with the guided recipe framework

Learning Outcomes

You will:

- Recognize scenarios & business needs that make a salary prediction regression model valuable, such as compensation planning
- Understand & address important considerations before beginning the model-building process, ensuring effective & accurate predictions
- Confidently create Custom / Advanced regressions models in One AI using the available guided framework



Custom / Advanced Modeling in One AI



Custom / Advanced Modeling in One AI

- One AI still guides you through the model-building process, automatically selecting defaults to allow you to focus on data framing
 - Key differences from recipes:
 - Tooltips are not as specific
 - User must select the type of prediction problem
- Users can predict any **continuous value**, if a defined prediction metric & the appropriate data to train the model is validated in One Model
 - Attrition
 - Performance scores
 - Engagement scores



Salary Prediction Regression Model



Salary Prediction Regression Model

- Estimates an employee's future salary at a specified time, such as within the next year
 - Analyzes attributes like experience, education, role, location, performance, to help you understand how these factors contribute to salary projections
 - Outputs continuous salary estimate for individual employees (instances)
 - Results highlight the top factors influencing salary
- Use cases
 - Compensation planning, budget forecasting, & performance based adjustments
 - Pay equity analysis
 - Hiring & retention strategies



Considerations Before Model Building



Considerations Before Building

- Must predict a continuous value vs. fixed or constant values
- Business objectives & goals
 - Confirm hypotheses, exploratory analysis, or model duplication
- Consider potential biases in the training data
 - Biased training data can result in biased predictions
- Data availability & quality



How to Build in One AI





Thanks for watching!

