

Data Science Interview:

As part of the interview process, please perform the tasks below. Be sure to note your steps and thought processes as you will walk us through your work.

- 1) Examine both your training and test sets and perform some simple EDA (10-15 min).
- 2) An attribution model is a model that shows the primary drivers of product sales and the impact of these individual factors. With the training data attached, please build an attribution model with ORD_UNITS as the dependent variable. You may use any modeling technique or algorithm you'd like (1-3 hours).
 - Please return a data frame with all the test data and a column of your predicted ORD_UNITS appended.
 - Your test set does not contain the true ORD_UNITS values, so you will not be able to use this for evaluation. We will calculate the evaluation metrics for your output.
- 3) One of the more common problems that we approach on the One Demand Advanced Analytics team is discount optimization. Using the test set and your predicted ORD_UNITS values, please find the optimal SnSDiscount for the Brand-Tech classifications below (0.5-1.5 hours).

BRAND	TECH	Optimal SnSDiscount
NUTRO	DRY	
CESAR	WET	
GREENIES	C&T	