

Mean encodings

Total points 4

1.	What can be an indicator of usefulness of mean encodings?	1 point
	O Learning to rank task.	
	O A lot of binary variables.	
	Categorical variables with lots of levels.	
2.	What is the purpose of regularization in case of mean encodings? Select all that apply.	1 point
	Regularization allows us to better utilize mean encodings.	
	Regularization reduces target variable leakage during the construction of mean encodings.	
	Regularization allows to make feature space more sparse.	
3.	What is the correct way of validation when doing mean encodings?	1 point
	O First split the data into train and validation, then estimate encodings on train, then apply them to validation, then validate the model on that split.	
	O Calculate mean encodings on all train data, regularize them, then validate your model on random validation split.	
	O Fix cross-validation split, use that split to calculate mean encodings with CV-loop regularization, use the same split to validate the model.	
4.	Suppose we have a data frame 'df' with categorical variable 'item_id' and target variable 'target'.	1 point
	We create 2 different mean encodings:	
	 via df['item_id_encoded1'] = df.groupby('item_id')['target'].transform('mean') 	
	 via OneHotEncoding item_id, fitting Linear Regression on one hot-encoded version of item_id and then calculating 'item_id_encoded2' as a prediction from this linear regression on the same data. 	
	Select the true statement.	
	item_id_encoded1' and 'item_id_encoded2' will be essentially the same.	
	item_id_encoded1' and 'item_id_encoded2' may hugely vary due to rare categories.	
	O 'item_id_encoded1' and 'item_id_encoded2' will be essentially the same only if linear regression was fitted without a regularization.	
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