O None  1 None 2 None 3 None 4 None 1374 None 1375 None 1376 None 1377 None 1378 None 1379 rows × 43 Cook data[categor: Alley BldgType BsmtCond BsmtExposure BsmtFinType1 BsmtFinType2 BsmtQual CentralAir Condition1 Condition2 Electrical ExterCond ExterCond Exterior1st Exterior2nd Fence FireplaceQu Foundation Functional GarageCond GarageFinish GarageQual GarageType Heating HeatingQC HouseStyle KitchenQual LandContour LandSlope LotConfig LotShape MSZoning MasVnrType MiscFeature Neighborhood PaolQC RoofMtl RoofStyle SaleCondition SaleType Street Utilities	1Fam 1Fam 1Fam 1Fam 1Fam 1Fam 1Fam 1Fam	TA TA TA Gd TA None TA Gd TA TA	No Gd Mn No Av None No No No	GLQ ALQ GLQ ALQ GLQ None ALQ GLQ GLQ	Unf Unf Unf Unf Unf Unf Unf Ling Rec Unf Rec LwQ	Gd Gd Gd TA Gd None Gd TA TA	Y Y Y Y Y W Y Y Y Y Y Y Y	Norm Feedr Norm Norm Norm Norm Norm Norm Norm Nor	Norm	None None None None None None None None	CollgCr Veenker CollgCr Crawfor NoRidge Gilbert NWAmes Crawfor NAmes Edwards	Y Y Y Y Y W Y Y Y Y Y Y Y	None CompShg	Gable Alip Gable	Norn Norn Norn Norn Norn Norn Norn Norn
# Determine num_ohc_cols  # No need to small_num_ohe # Number of small_num_ohe # This is 21: # This is qu. small_num_ohe 215  Creating a new d  • Used the dat • On this new • For the data  For the first step, value for each cat  from sklearn # Copy of the data_ohc = data_ohc = data_ohc = data_ohc = data_ohc  # The encode le = LabelEncohc = OneHote for col in new_dat = le # Remove data_ohc # One ho new_dat = le # Create n_cols = col_name # Create new_df =  # Append	how many = (data[ .app] .sort  encode in c_cols = one-hot of c_cols -= 5 columns ite a few c_cols.su  ata set who dataframe .cd dataframe .that are no numericall tegory, and .preproce e data ata.copy( rs coder() Encoder() um_ohc_co r encode .fit_trar the orig = data_c t encode = ohc.fit unique of new_dats s = ['_' the new pd.Dataf	categorical_ cy(lambda x: -values(ascent f there is a num_ohc_cols columns is one: f assuming a num()  ere all of the above the account one-hot encode at a column one-hot encode at a	categories checked, drop the detach of the ded, drop the string categorie to one-hot end to OneHotEnce categories checked, drop the detach of the ded, drop the string categories checked, drop the detach one-hot end to one-hot end categories checked, drop the detach of the detach of the detach of the detach one-hot end to one-hot end detach one-hot end d	t's going t  ())  ())  ())  ())  ())  ())  ())  (	# locating or of category of category dropped.  Il be one-hore parate copy columns and are string cate category on the columns and are string category of the columns are string to the columns are stri	encoded. We of the datafra add it back to ategoricals.  LabelEnco alues anyway	e can fit this da me for one-ho the dataframe	ita and see t encoding e. Be sure to	how it affects to	he results. nal column.	t using this.		r since it doesn't r	equire specify	ying a nu
data_ohc.sha  215  print(data.si  # Remove the data = data.si  print(data.si  80 37  • Creating train • For each dat • Calculate the  #demo from sklearn  y_col = 'Sal  # Split the feature_cols X_data = data X_train, X_train, X_train, X_train, X_train_ohc,  # Split the feature_cols X_data_ohc = y_data_ohc = y_data_ohc = y_data_ohc = x_train_ohc,  # Split the feature_cols X_data = data X_train, X_t	hape[1])  string of drop(num_hape[1])  n and tests a set, fit a set mean square a set, fit a set mean square a	splits of both data basic linear regard error on the lection important and the lection important	the datafra dex, axis=1  ata sets. To end pression mode both the train at  the hot encoded columns if  encoded chc.columns ata sets. To end pression mode coth the train at  the hot encoded columns if  encoded columns if  atain_tes  encoded columns if  atain_tes  encoded columns if  atain_tes	sure the data I on the training and test sets for the set_split  I of x != y_col]  I of x != y_  I of x != y_  I of x != y_  I set_split  I dest_split  I de	data, y_dast_size=0	ctive models.  ata, 3, random_s  plit(X_data_3, random_s)	which model which model which model with the state	produces sr		·					
feature_cols X_data_ohc = y_data_ohc = y_data_ohc,  X_train_ohc,  X_train_ohc  (965, 294)  y_train_ohc  (965,)  # Compare the (X_train_ohc)  True  (X_train_ohc  True, Tru	= [x for data_oho dat	x in data_o [feature_co] [y_col]  hc, y_train_ hc, y_trai	chc.columns ls]  ohc.columns ls]  ohc.y_test  chey are ide  dex).all();  dex)  True,	rue, True, rue, True, rue, True, rue, True, rue, rue, rue, rue, rue, rue, rue,	in_test_spectrum in_test_spectrum st_size=0  ion gives  True, True	True,	state=42)		ue in that a	array has t	o be true for	this to	evaluate to tr	rue.	
True,	True,	True, True True True, True True True, True True True True, True True True True True True True True	True, T T True, T True, T T T T T T T T T T T T T T T T T T T	rue, True, rue, rue, True, rue, rue, rue, rue, rue, rue, rue,	True,										