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<pre>import pandas as pd print('Column Datatypes:\n',df. # convert all nominal variables df_raw=df.copy(deep=True) df_knn=df.copy(deep=True) # create new binary columns df_dummies=pd.get_dummies(df_kr # add them to dataframe df_knn=df_knn.join(df_dummies) # drop original columns df_knn=df_knn.drop(['os'],axis= display('Data Example:',HTML(df) # List of columns to exclude fr columns_to_exclude = ['classifi # Filter the columns to normali columns_to_normalize = [col for # Min-max normalization for sel for col in columns_to_normalize df_knn[col] = (df_knn[col] # Display the DataFrame display(HTML(df_knn.head(10).to # encode label, since KNN requir from sklearn import preprocessi y = df_knn['classification'] le = preprocessing.LabelEncoder le.fit(y) y_encoded = le.transform(y) print(y_encoded)</pre>	s to binary variables nn[['os']]) =1) f_knn.head(10).to_html rom normalization ication','usage_counte ize r col in df_knn.column lected columns e: - df_knn[col].min()) o_html())) ires label encoding ing	l())) er', 'normal_prions ns if col not in	columns_to_exclud	ask_size', 'h: le]			nvcsw']	211	0 341974	0	0				
df_knn['classification'] = y_er x_features = df_knn.drop('class') display(HTML(df_knn.head(10).to') Column Datatypes: classification object os object usage_counter int64 prio int64 static_prio int64 normal_prio int64 vm_pgoff int64 vm_truncate_count int64 task_size int64 map_count int64 hiwater_rss int64 total_vm int64 shared_vm int64 shared_vm int64 reserved_vm int64 nr_ptes int64 nvcsw int64 nivcsw int64 signal_nvcsw int64 dtype: object 'Data Example:' classification usage_counter 0 malware 0 30693 1 malware 0 30693	prio static_prio normal_ 378560 14274	0 0 0	13173 13173	0 6850 0 6850	0 150 0 150	120 : 0 120 :	124 210 124 210	0 34197 0 34197	4 0	0	1	os_Debian o	os_Mac os 0	0	0
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