Data Analysis with Python

Cheat Sheet: Data Wrangling

Description	Code Example
Replace the missing values of the data set attribute with the mode common occurring entry in the column.	<pre>MostFrequentEntry = df['attribute_name'].value_counts().idxmax() df['attribute_name'].replace(np.nan,MostFrequentEntry,>df['attribute_name'].replace(np.nan,MostFrequentEntry,</pre>
Replace the missing values of the data set attribute with the mean of all the entries in the column.	AverageValue=df['attribute_name'].astype(<data_type>).mean(axis=0) df['attribute_name'].replace(np.nan, AverageValue, inplace=True)</data_type>
Fix the data types of the columns in the dataframe.	<pre>df[['attribute1_name', 'attribute2_name',]] = df[['attribute1_name', 'attribute2_name',]].astype('data_type') #data_type is int, float, char, etc.</pre>
Normalize the data in a column such that the values are restricted between 0 and 1.	<pre>df['attribute_name'] = df['attribute_name']/df['attribute_name'].max()</pre>
Create bins of data for better analysis and visualization.	<pre>bins = np.linspace(min(df['attribute_name']), max(df['attribute_name'],n) # n is the number of bins needed GroupNames = ['Group1', 'Group2', 'Group3,] df['binned_attribute_name'] = pd.cut(df['attribute_name'], bins, labels=GroupNames, include_lowest=True)</pre>
Change the label name of a dataframe column.	df.rename(columns={'old_name':\'new_name'}, inplace=True)
Create indicator variables for categorical data.	<pre>dummy_variable = pd.get_dummies(df['attribute_name']) df = pd.concat([df, dummy_variable],axis = 1)</pre>
	Replace the missing values of the data set attribute with the mode common occurring entry in the column. Replace the missing values of the data set attribute with the mean of all the entries in the column. Fix the data types of the columns in the dataframe. Normalize the data in a column such that the values are restricted between 0 and 1. Create bins of data for better analysis and visualization. Change the label name of a dataframe column. Create indicator variables for categorical



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