4/19/25, 10:08 AM about:blank

Data Analysis with Python

Cheat Sheet: Data Wrangling

Package/Method	Description	Code Example
Replace missing data with frequency	Replace the missing values of the data set attribute with the mode common occurring entry in the column.	MostFrequentEntry = df['attribute_name'].value_counts().idxmax() df['attribute_name'].replace(np.nan,MostFrequentEntry,inplace=True)
Replace missing data with mean	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	Fix the data types of the columns in the dataframe.	df[['attribute1_name', 'attribute2_name',]] = df[['attribute1_name', 'attribute2_name',]].astype('data_type') #data_type is int, float, char, etc.
Data Normalization	Normalize the data in a column such that the values are restricted between 0 and 1.	df['attribute_name']= df['attribute_name']/df['attribute_name'].max()
Binning	Create bins of data for better analysis and visualization.	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)
Change column name	Change the label name of a dataframe column.	df.rename(columns={'old_name':\'new_name'}, inplace=True)

about:blank 1/2

Indicator Variables	Create indicator variables for categorical data.	dummy_variable = pd.get_dummies(df['attribute_name']) df = pd.concat([df, dummy_variable],axis = 1)	



about:blank 2/2