Lill tip sex smoker day time size	
<pre>total_bill: double (nullable = true) tip: double (nullable = true) sex: string (nullable = true) smoker: string (nullable = true) day: string (nullable = true) time: string (nullable = true) size: integer (nullable = true) pyspark.ml.feature import StringIndexer pyspark.ml.feature import VectorAssembler</pre> exer=StringIndexer(inputCol='sex', outputCol='Gender_Col')	
xer=StringIndexer(inputCol='sex',outputCol='Gender_Col')	
indexer.fit(df).transform(df) show() 1_bill tip sex smoker day time size Gender_Col 16.99 1.01 Female No Sun Dinner 2 1.0 10.34 1.66 Male No Sun Dinner 3 0.0 23.68 3.31 Male No Sun Dinner 2 0.0 24.59 3.61 Female No Sun Dinner 4 1.0 25.29 4.71 Male No Sun Dinner 4 0.0 8.77 2.0 Male No Sun Dinner 2 0.0 26.88 3.12 Male No Sun Dinner 4 0.0 8.77 2.0 Male No Sun Dinner 2 0.0 15.04 1.96 Male No Sun Dinner 2 0.0 14.78 3.23 Male No Sun Dinner 2 0.0 14.78 3.23 Male No Sun Dinner 2 0.0 15.42 1.57 Male No Sun Dinner 2 0.0 15.43 3.0 Male No Sun Dinner 4 1.0 15.42 1.57 Male No Sun Dinner 2 0.0 14.83 3.02 Female No Sun Dinner 2 0.0 14.83 3.02 Female No Sun Dinner 2 0.0 16.97 3.71 Male No Sun Dinner 2 0.0 16.97 3.71 Male No Sun Dinner 3 0.0 16.97 3.51 Female No Sun Dinner 3 0.0 16.97 3.55 Female No Sun Dinner 3 0.0 16.97 3.55 Female No Sun Dinner 3 0.0 16.97 3.55 Female No Sun Dinner 3 0.0 16.93 35 Male No Sun Dinner 3 0.0 16.93 35 Male No Sun Dinner 3 0.0 16.93 35 Male No Sun Dinner 3 0.0 16.95 3.35 Male No Sun Dinner 3 0.0 16.95 3.35 Male No Sun Dinner 3 0.0 16.95 3.35 Male No Sun Dinner 3 0.0	
Indexer	
indexer.fit(df2).transform(df2) show() bill tip sex smoker day time size Gender_Col Smoker_Col Day_Col	
indexer.fit(df3).transform(df3) show()	
ureAss=VectorAssembler(inputCols=['tip','Gender_Col','Smoker_Col','Day_Col','Time_Col'],outputCol='inputfeatures utframe=featureAss.transform(df3) utframe.show(5, False) +++	5')
Idata=outputframe.select('inputfeatures','total_bill')	ession.builder.getOrCreate()
ers\user\anaconda3\lib\site-packages\pyspark\sql\context.py:125: FutureWarning: Deprecated in 3.0.0. Use SparkSonings.warn(+ tfeatures total_bill prediction + 0],[1.25]) 10.07 13.343755078112054 0],[1.97]) 12.02 16.37427023840838 0],[2.0]) 12.69 16.50054170342073 0],[2.0]) 12.69 16.542632191758177 0],[2.01]) 20.23 16.542632191758177 0],[2.24]) 16.04 17.510713423519505 +	salider . getorer eate()
t("R2",res.r2) t("Mean Absolute Error is",res.meanAbsoluteError) t("Root Mean Square Error(RMSE) is",res.rootMeanSquaredError) 426611616588921 Absolute Error is 5.26989042657595 Mean Square Error(RMSE) is 7.048244434152945	