

```
In [1]: from satisfaction_module2 import *
```

```
In [2]: model = flight_satisfaction_model('modell', 'scalerr')
```

```
In [3]: pd.options.display.max_columns = None
```

```
In [4]: model.load_and_clean_data('data_to_module.csv')
```

C:\Users\sokoo\CRM analiza\satisfaction_module2.py:93: FutureWarning: errors='ignore' is deprecated and will raise in a future version. Use to_numeric without passing `errors` and catch exceptions explicitly instead

```
df = df.apply(lambda col: pd.to_numeric(col, errors='ignore', downcast='integer')
```

```
In [5]: model.predicted_outputs()
```

Out[5]:

	Gender	Customer Type	Type of Travel	Business Class	Economy Class	Economy Plus Class	Flight Distance	Departure Delay	Arr De
0	1	1	0	1	0	0	56	0	
1	1	1	0	1	0	0	2926	0	
2	1	1	0	0	1	0	109	3	
3	0	1	0	1	0	0	86	0	
4	0	1	0	0	1	0	199	59	
...
28808	0	1	1	0	1	0	950	1	
28809	1	1	1	0	1	0	1076	28	
28810	1	1	1	0	1	0	1010	0	
28811	0	1	1	0	1	0	1076	12	
28812	1	1	1	0	1	0	1010	0	

28813 rows × 25 columns

```
In [6]: predictions = model.predicted_outputs()
```

```
In [7]: predictions = predictions.drop(['Flight Distance', 'Food and Drink', 'Seat Comfort'])
```

```
In [8]: predictions.head()
```

Out[8]:

	Gender	Customer Type	Type of Travel	Business Class	Economy Class	Economy Plus Class	Departure Delay	Arrival Delay	Departure and Arrival Time Convenience
0	1	1	0	1	0	0	0	0	
1	1	1	0	1	0	0	0	0	
2	1	1	0	0	1	0	3	1	
3	0	1	0	1	0	0	0	0	
4	0	1	0	0	1	0	59	50	

In [9]: `predictions.shape[1]`

Out[9]: 22

In [10]: `import pymysql`

In [11]: `conn = pymysql.connect(database = 'flight_satisfaction',user= 'root',password = 'pa`

In [12]: `cursor= conn.cursor()`

In [13]: `cursor.execute('SELECT * FROM passenger_satisfaction;')`

Out[13]: 0

In [14]: `insert_query = 'INSERT INTO passenger_satisfaction VALUES'`

In [15]: `for i in range(predictions.shape[0]):
 insert_query += '('
 for j in range(predictions.shape[1]):
 insert_query += str(predictions[predictions.columns.values[j]][i]) + ', '
 insert_query = insert_query[:-2] + '),'`

In [16]: `insert_query[:130]`

Out[16]: 'INSERT INTO passenger_satisfaction VALUES(1, 1, 0, 1, 0, 0, 0, 0, 2, 2, 4, 3, 2, 4, 4, 4, 4, 1, 4, 1, 0.4821300304741825, 0), (1, '

In [17]: `insert_query = insert_query[:-3] + ');'`

In [18]: `cursor.execute(insert_query)`

Out[18]: 28813

In [19]: `conn.commit()`

In [39]: `conn.close()`