#### You

```
Traceback (most recent call last): File "C:\Users\fifau\OneDrive - University of
Bradford\Documents\Python_Files\Funzy ML\DrinksSalesML.py", line 18, in model.fit(X_train, y_train) File
"C:\Users\fifau\AppData\Local\Programs\Python\Python311\Lib\site-packages\sklearn\base.py", line 1152, in
"C:\Users\fifau\AppData\Local\Programs\Python\Python311\Lib\site-packages\sklearn\linear model base.py",
line 678, in fit X, y = self. validate data( ^^^^^^^^ File
"C:\Users\fifau\AppData\Local\Programs\Python\Python311\Lib\site-packages\sklearn\base.py", line 622, in
"C:\Users\fifau\AppData\Local\Programs\Python\Python311\Lib\site-packages\sklearn\utils\validation.py",
"C:\Users\fifau\AppData\Local\Programs\Python\Python311\Lib\site-packages\sklearn\utils\validation.py",
line 915, in check array array = asarray with order(array, order=order, dtype=dtype, xp=xp)
^^^^^^^ File
"C:\Users\fifau\AppData\Local\Programs\Python\Python311\Lib\site-packages\sklearn\utils array api.py",
line 380, in asarray with order array = numpy.asarray(array, order=order, dtype=dtype)
^^^^^^^ File
"C:\Users\fifau\AppData\Local\Programs\Python\Python311\Lib\site-packages\pandas\core\generic.py", line
not convert string to float: 'Tue 25/6/24 10:00-11:00'
```

## **Copilot**

It looks like your model is trying to convert a string to a float, which isn't possible directly. The string 'Tue 25/6/24 10:00-11:00' seems to be a date-time value. You'll need to preprocess this data into a numerical format before fitting your model.

One common approach is to convert date-time strings into timestamps or extract relevant features like hour of the day, day of the week, etc., as separate numerical columns. Would you like guidance on how to do this?

## You

Yes how can I do it so that the relevant information that is preserved is the day and time interval?

#### **Copilot**

You can use the pandas library to extract the day of the week and time interval from your date-time string. Here's a brief example of how you might do it:

```
import pandas as pd

# Assuming df is your DataFrame and 'date_column' is the name of your date-time column
df['date_column'] = pd.to_datetime(df['date_column'], format='%a %d/%m/%y %H:%M-%H:%M')

# Extract day of week as a numerical value (Monday=0, Sunday=6)
df['day_of_week'] = df['date_column'].dt.dayofweek

# Extract start hour and end hour from the time interval
df['start_hour'] = df['date_column'].dt.hour
df['end_hour'] = df['date_column'].dt.hour + 1 # Assuming the interval is always 1 hour
```

This code converts your date-time string into a pandas datetime object, from which you can extract the day of the week and start/end hours as separate columns. You'll need to adjust the format parameter in pd.to datetime() to match the exact format of your date-time strings.

Remember to drop or convert any other non-numeric columns before fitting your model. Would you like more detailed help with this?

```
Now I'm getting this error: C:\Users\fifau\AppData\Local\Programs\Python\Python311\python.exe
"C:\Users\fifau\OneDrive - University of Bradford\Documents\Python Files\Funzy ML\DrinksSalesML.py"
Traceback (most recent call last): File "C:\Users\fifau\OneDrive - University of
Bradford\Documents\Python Files\Funzy ML\DrinksSalesML.py", line 14, in data['Date/Time'] =
pd.to datetime(data['Date/Time'], format='%a %d/%m/%y %H:%M-%H:%M')
"C:\Users\fifau\AppData\Local\Programs\Python\Python311\Lib\site-
packages\pandas\core\tools\datetimes.py", line 1112, in to_datetime values = convert_listlike(arg._values,
format) ^^^^^^ File
\label{lem:converse} $$ 'C:\Users \widehat{11\Lib\site} Programs \P \ Python $$11\Lib\site} $$
packages\pandas\core\tools\datetimes.py", line 488, in convert listlike datetimes return
array strptime with fallback(arg, name, utc, format, exact, errors)
"C:\Users\fifau\AppData\Local\Programs\Python\Python311\Lib\site-
packages\pandas\core\tools\datetimes.py", line 519, in array strptime with fallback result, timezones =
array strptime(arg, fmt, exact=exact, errors=errors, utc=utc)
^^^^^^ File "strptime.pyx", line 238, in
pandas. libs.tslibs.strptime.array strptime File "strptime.pyx", line 248, in
pandas.libs.tslibs.strptime.array strptime File
"C:\Users\fifau\AppData\Local\Programs\Python\Python311\Lib\re_init.py", line 227, in compile return
compile(pattern, flags) ^^^^^^^^^^ File
"C:\Users\fifau\AppData\Local\Programs\Python\Python311\Lib\re_init.py", line 294, in _compile p =
compiler.compile(pattern, flags) ^^^^^^^^^^^^^^^^^^ File
"C:\Users\fifau\AppData\Local\Programs\Python\Python311\Lib\re compiler.py", line 743, in compile p =
parser.parse(p, flags) ^^^^^^^^^ File
"C:\Users\fifau\AppData\Local\Programs\Python\Python311\Lib\re_parser.py", line 980, in parse p =
parse sub(source, state, flags & SRE FLAG VERBOSE, 0)
"C:\Users\fifau\AppData\Local\Programs\Python\Python311\Lib\re parser.py", line 455, in parse sub
"C:\Users\fifau\AppData\Local\Programs\Python\Python311\Lib\re_parser.py", line 858, in _parse raise
source.error(err.msg, len(name) + 1) from None re.error: redefinition of group name 'H' as group 7; was group
5 at position 167
```

Process finished with exit code 1

# **Copilot**

The error you're encountering now is related to the format string used in pd.to\_datetime(). It seems there might be an issue with the way the hours are specified in the format.

In Python's datetime module, %H is used to parse hours (00-23). If you have two hour specifications in your date-time string (like '10:00-11:00'), you'll need to handle them separately. However, you cannot have two groups with the same name in a regular expression, which is likely causing the error.

Here's how you can adjust your code:

```
data['start_time'] = pd.to_datetime(data['Date/Time'].str.split('-').str[0], format='%a %d/%m/%y %H:%M')
data['end_time'] = pd.to_datetime(data['Date/Time'].str.split('-').str[1], format='%H:%M')
```

This code splits the 'Date/Time' column on the '-' character and parses the start and end times separately. Make sure your date-time strings are consistent and match the format you're providing to pd.to\_datetime().

### You

/i have this code but I'm getting this error:

#### **Copilot**

