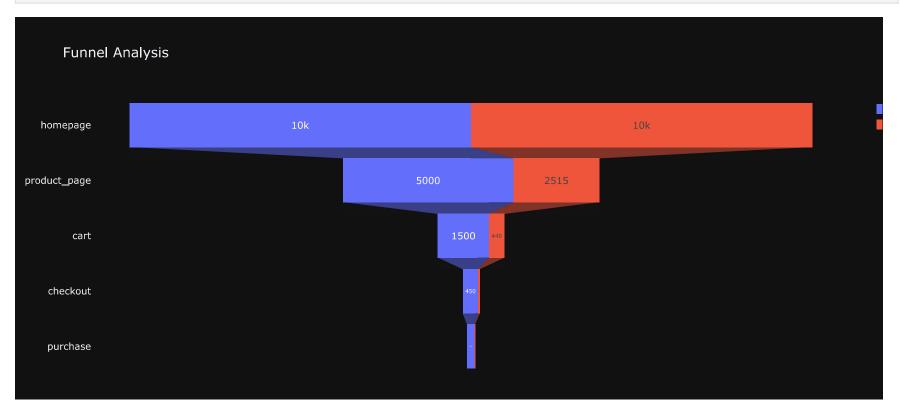
```
In [1]:
         # For the Funnel analysis, Lets starts by importing the necessary Python Libraries and the dataset:
         import pandas as pd
         import plotly.graph objs as go
         import plotly.express as px
         import plotly.io as pio
         pio.templates.default = "plotly_dark"
        User data = pd.read csv(r'C:\Users\OKONKWO HENRY\Downloads\user data.csv')
         print(User data.head())
          user id
                      stage conversion
        0 user 0 homepage
                                   True
        1 user 1 homepage
                                   True
        2 user 2 homepage
                                   True
        3 user 3 homepage
                                   True
        4 user 4 homepage
                                   True
                      stage conversion
          user_id
        0 user_0 homepage
                                   True
                                   True
        1 user 1 homepage
        2 user 2 homepage
                                   True
        3 user 3 homepage
                                   True
        4 user_4 homepage
                                   True
In [2]: # Count for each Stage
        print(User_data["stage"].value_counts())
                        10000
        homepage
        product page
                         5000
                         1500
        cart
        checkout
                          450
                          225
        purchase
        Name: stage, dtype: int64
                        10000
        homepage
        product_page
                         5000
        cart
                         1500
        checkout
                          450
                          225
        purchase
        Name: stage, dtype: int64
In [3]: # Analysis
         #define the funnel stages
         funnel_stages = ['homepage', 'product_page', 'cart', 'checkout', 'purchase']
         #calculate the number of users and conversions for each stage
         num users = []
        num_conversions = []
         for stage in funnel_stages:
            stage users = User data[User data['stage'] == stage]
            num users.append(len(stage users))
            num_conversions.append(stage_users['conversion'].sum())
         #create a funnel chart
         fig = go.Figure(go.Funnel(y=funnel stages,x=num users,textposition='inside',textinfo='value', name='Users'))
         fig.add_trace(go.Funnel( y=funnel_stages,x=num_conversions,textposition='inside',textinfo='value',name='Conversions'))
```

```
fig.update_layout(title='Funnel Analysis',funnelmode='stack')
fig.show()
```



In [4]: # DATA INSIGHT

# This shows that 36 check out was completed on the site which shows a 8 percent of the total checkout visitation on the page.

# Ths shows more work need to be done to improve this rate of users that completed the chckout process.