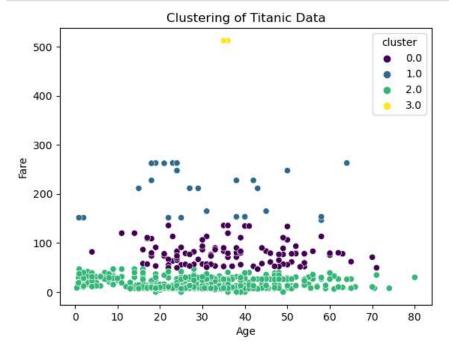
```
In [1]: # Import necessary libraries
        import pandas as pd
        from sklearn.cluster import KMeans
        import matplotlib.pyplot as plt
        import seaborn as sns
In [2]: # Load the Titanic dataset from the given URL
        url = "https://raw.githubusercontent.com/datasciencedojo/datasets/master/titanic.csv"
        titanic data = pd.read csv(url)
In [3]: # Select relevant features for clustering
        features = ['Age', 'Fare', 'Pclass']
In [4]: # Drop missing values for the selected features
        data_for_clustering = titanic_data[features].dropna()
In [5]: # Apply KMeans clustering
        n clusters = 4
        kmeans = KMeans(n_clusters=n_clusters, random_state=42)
        data_for_clustering['cluster'] = kmeans.fit_predict(data_for_clustering)
        C:\Users\squir\anaconda3\Lib\site-packages\sklearn\cluster\_kmeans.py:1412: FutureWarning: The default value of
        `n_init` will change from 10 to 'auto' in 1.4. Set the value of `n_init` explicitly to suppress the warning
          super(). check params vs input(X, default n init=10)
In [6]: # Merge the clustered data back to the original DataFrame
        titanic_data = titanic_data.merge(data_for_clustering[['cluster']], left_index=True, right_index=True, how='left'
In [7]: # Convert the 'age' column to numeric if it's not already
        titanic_data['Age'] = pd.to_numeric(titanic_data['Age'], errors='coerce')
```

```
In [8]:
    # Plot the clustered data
    sns.scatterplot(x='Age', y='Fare', hue='cluster', data=titanic_data.dropna(subset=['Age', 'Fare']), palette='viri
    plt.title('Clustering of Titanic Data')
    plt.xlabel('Age')
    plt.ylabel('Fare')
    plt.show()
```



In []: