EDA_Cluster_Model_data

March 1, 2025

```python
[1]: import pandas as pd
```

```python
[2]: df = pd.read_csv('dataset.csv')
```

```python
[3]: df.dropna(how='all', inplace=True)
     df['Area Privada'] = df['Area Privada'].str.extract('(\d+\.?\d*)').astype(float)
     df['Area'] = df['Area'].str.extract('(\d+\.?\d*)').astype(float)
```

```
<>:2: SyntaxWarning: invalid escape sequence '\d'
<>:3: SyntaxWarning: invalid escape sequence '\d'
<>:2: SyntaxWarning: invalid escape sequence '\d'
<>:3: SyntaxWarning: invalid escape sequence '\d'
/tmp/ipykernel_35317/2323442900.py:2: SyntaxWarning: invalid escape sequence
'\d'
  df['Area Privada'] = df['Area
Privada'].str.extract('(\d+\.?\d*)').astype(float)
/tmp/ipykernel_35317/2323442900.py:3: SyntaxWarning: invalid escape sequence
'\d'
  df['Area'] = df['Area'].str.extract('(\d+\.?\d*)').astype(float)
```

```python
[4]: df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
Index: 594 entries, 0 to 684
Data columns (total 14 columns):
 #   Column                 Non-Null Count  Dtype
---  ------                 --------------  -----
 0   ID                     594 non-null    float64
 1   Tipo de inmueble       594 non-null    object
 2   Precio (admin_included) 594 non-null   float64
 3   Estrato                591 non-null    float64
 4   Baños                  579 non-null    float64
 5   Habitaciones           550 non-null    float64
 6   Parqueaderos           252 non-null    float64
 7   Area                   594 non-null    float64
 8   Area Privada           481 non-null    float64
 9   Piso                   594 non-null    float64
 10  Facilities             458 non-null    object
 11  Descripción            594 non-null    object
```

```
12   Antiguedad              535 non-null    object
13   Estado                  53 non-null     object
dtypes: float64(9), object(5)
memory usage: 69.6+ KB
```

[5]: `df.to_csv('cleaned_dataset.csv', index=False)`

[6]: `df.head(10)`

[6]:
```
            ID Tipo de inmueble  Precio (admin_included)  Estrato  Baños  \
0    10830219.0     Apartaestudio                1800000.0      4.0    1.0
1   191712314.0     Apartaestudio                3500000.0      4.0    1.0
2    10183666.0      Apartamento                1050000.0      4.0    1.0
3    10949219.0      Apartamento                3500000.0      4.0    2.0
4   192059073.0      Apartamento                1281000.0      4.0    1.0
6   191752583.0     Apartaestudio                1450000.0      3.0    1.0
8   191237365.0             Casa                6000000.0      5.0    5.0
9   191287641.0     Apartaestudio                2300000.0      4.0    1.0
10  191382794.0             Casa               15000000.0      4.0    6.0
11  191214224.0        Habitación                550000.0      4.0    NaN
```

```
    Habitaciones  Parqueaderos  Area  Area Privada  Piso  \
0            NaN           NaN  22.0          22.0   2.0
1            1.0           NaN  31.0          31.0   0.0
2            1.0           NaN  45.0          45.0   2.0
3            2.0           1.0  68.2          68.2  14.0
4            1.0           1.0  17.0          17.0   0.0
6            1.0           NaN  26.0          26.0   0.0
8            5.0           5.0 380.0         380.0   1.0
9            1.0           NaN  19.0           NaN   4.0
10          19.0           4.0 608.0         608.0   3.0
11           NaN           NaN  70.0           NaN   0.0
```

```
                                   Facilities  \
0   Amoblado, Cocina Integral, Colegios / Universi…
1   Alcantarillado, Amoblado, Ascensor, Bahias de …
2   Barra estilo americano, Cocina Integral, Cocin…
3   Ascensor, Balcón, Barra estilo americano, Baño…
4   Acceso Pavimentado, Alcantarillado, Cochera, C…
6                                  Balcón, Terraza
8        Bahias de parqueo, Bahía exterior de parqueo
9   Amoblado, Ascensor, Colegios / Universidades, …
10  Acceso Pavimentado, Baño Auxiliar, Cerca de Zo…
11                                             NaN
```

```
                                  Descripción     Antiguedad  \
0   Aparta Estudio en excelente ubicación, con tod…   9 a 15 años
```

```
1    Este elegante apartaestudio ofrece una combina…    menor a 1 año
2    Apartamentos de 1 alcoba, sala comedor, cocina…     1 a 8 años
3    Excelente apartamento en el proyecto Avanzza P…    menor a 1 año
4    [ARR] ID HOUM: 148368  Entérate de todos los b…    menor a 1 año
6    HERMOSO Y COMODO APARTAESTUDIO , ILUMINACION N…     1 a 8 años
8    Oportunidad Única! Casa Espectacular en Renta …    16 a 30 años
9    Hermoso apartaestudio Nuevo y Amoblado cerca d…    menor a 1 año
10   Este inmueble cuenta con los espacios y la ubi…    más de 30 años
11   Se arrienda habitación pequeña con closet y es…             NaN

              Estado
0                NaN
1                NaN
2                NaN
3                NaN
4     Excelente estado
6                NaN
8          Buen estado
9                NaN
10               NaN
11               NaN
```

[7]:
```python
# Check for duplicate IDs
duplicate_ids = df['ID'].duplicated().sum()
print(f"Number of duplicate IDs found: {duplicate_ids}")

# Remove duplicate rows keeping the first occurrence
df = df.drop_duplicates(subset=['ID'], keep='first')
print(f"Dataframe shape after removing duplicates: {df.shape}")
```

```
Number of duplicate IDs found: 0
Dataframe shape after removing duplicates: (594, 14)
```

[8]:
```python
model_df = df.drop(columns=['Descripción', 'Facilities', 'ID', 'Estado'])
```

[9]:
```python
model_df.head()
```

[9]:
```
  Tipo de inmueble  Precio (admin_included)  Estrato  Baños  Habitaciones  \
0    Apartaestudio               1800000.0      4.0    1.0           NaN
1    Apartaestudio               3500000.0      4.0    1.0           1.0
2     Apartamento               1050000.0      4.0    1.0           1.0
3     Apartamento               3500000.0      4.0    2.0           2.0
4     Apartamento               1281000.0      4.0    1.0           1.0

   Parqueaderos  Area  Area Privada  Piso     Antiguedad
0           NaN  22.0          22.0   2.0      9 a 15 años
1           NaN  31.0          31.0   0.0    menor a 1 año
2           NaN  45.0          45.0   2.0       1 a 8 años
```

```
3          1.0  68.2        68.2  14.0   menor a 1 año
4          1.0  17.0        17.0   0.0   menor a 1 año
```

[10]:
```python
model_df['Tipo de inmueble'].value_counts()
```

[10]:
```
Tipo de inmueble
Apartamento     253
Apartaestudio   143
Casa            103
Habitación       95
Name: count, dtype: int64
```

[11]:
```python
model_df['Antiguedad'].value_counts()
```

[11]:
```
Antiguedad
más de 30 años    137
1 a 8 años        130
16 a 30 años      122
9 a 15 años        77
menor a 1 año      69
Name: count, dtype: int64
```

[12]:
```python
model_df['Tipo de inmueble'] = model_df['Tipo de inmueble'].replace({
        'Apartaestudio': 'Apartamento',
        'Habitación': 'Apartamento'
})
```

[13]:
```python
null_counts = model_df.isnull().sum()
print(null_counts)
```

```
Tipo de inmueble            0
Precio (admin_included)     0
Estrato                     3
Baños                      15
Habitaciones               44
Parqueaderos              342
Area                        0
Area Privada              113
Piso                        0
Antiguedad                 59
dtype: int64
```

[14]:
```python
model_df['Parqueaderos'] = model_df['Parqueaderos'].fillna(0)
model_df['Baños'] = model_df['Baños'].fillna(0)
model_df['Estrato'] = model_df['Estrato'].fillna(model_df['Estrato'].mode()[0])
model_df['Antiguedad'] = model_df['Antiguedad'].fillna(model_df['Antiguedad'].
    ↪mode()[0])
model_df['Habitaciones'] = model_df['Habitaciones'].fillna(1)
```

```
model_df['Area Privada'] = model_df['Area Privada'].fillna(model_df['Area'].
 ↪iloc[0])
```

[15]:
```
# Add price per square meter as a feature
model_df['Precio_por_m2'] = model_df['Precio (admin_included)'] /␣
 ↪model_df['Area']

# Add bedroom-to-bathroom ratio
model_df['Bedroom_Bath_Ratio'] = model_df['Habitaciones'] / model_df['Baños'].
 ↪replace(0, 0.5)

# Add categorical features for property size
model_df['Size_Category'] = pd.cut(
    model_df['Area'],
    bins=[0, 30, 60, 120, 500, float('inf')],
    labels=['Tiny', 'Small', 'Medium', 'Large', 'Huge']
)
model_df = pd.get_dummies(model_df, columns=['Size_Category'], drop_first=True)
```

[16]:
```
model_df_original = model_df.copy()
model_df
```

[16]:
	Tipo de inmueble	Precio (admin_included)	Estrato	Baños	Habitaciones \
0	Apartamento	1800000.0	4.0	1.0	1.0
1	Apartamento	3500000.0	4.0	1.0	1.0
2	Apartamento	1050000.0	4.0	1.0	1.0
3	Apartamento	3500000.0	4.0	2.0	2.0
4	Apartamento	1281000.0	4.0	1.0	1.0
..	…	…	…	…	…
679	Apartamento	3500000.0	4.0	1.0	2.0
681	Apartamento	1600000.0	5.0	1.0	1.0
682	Apartamento	4000000.0	4.0	2.0	4.0
683	Casa	7000000.0	4.0	0.0	1.0
684	Apartamento	1550000.0	4.0	1.0	1.0

	Parqueaderos	Area	Area Privada	Piso	Antiguedad	Precio_por_m2 \
0	0.0	22.0	22.0	2.0	9 a 15 años	81818.181818
1	0.0	31.0	31.0	0.0	menor a 1 año	112903.225806
2	0.0	45.0	45.0	2.0	1 a 8 años	23333.333333
3	1.0	68.2	68.2	14.0	menor a 1 año	51319.648094
4	1.0	17.0	17.0	0.0	menor a 1 año	75352.941176
..	…	…	…	…	…	…
679	0.0	90.0	90.0	0.0	1 a 8 años	38888.888889
681	0.0	18.0	16.0	2.0	1 a 8 años	88888.888889
682	1.0	168.0	22.0	4.0	más de 30 años	23809.523810
683	0.0	600.0	600.0	0.0	más de 30 años	11666.666667
684	0.0	39.0	39.0	1.0	más de 30 años	39743.589744

```
     Bedroom_Bath_Ratio  Size_Category_Small  Size_Category_Medium  \
0                   1.0                False                 False
1                   1.0                 True                 False
2                   1.0                 True                 False
3                   1.0                False                  True
4                   1.0                False                 False
..                  ...                  ...                   ...
679                 2.0                False                  True
681                 1.0                False                 False
682                 2.0                False                 False
683                 2.0                False                 False
684                 1.0                 True                 False

     Size_Category_Large  Size_Category_Huge
0                  False               False
1                  False               False
2                  False               False
3                  False               False
4                  False               False
..                   ...                 ...
679                False               False
681                False               False
682                 True               False
683                False                True
684                False               False

[594 rows x 16 columns]
```

```python
[17]: model_df = pd.get_dummies(model_df, columns=['Tipo de inmueble'],
      ↪drop_first=True)
      model_df = pd.get_dummies(model_df, columns=['Antiguedad'], drop_first=True)
```

```python
[18]: from sklearn.preprocessing import StandardScaler
      scaler = StandardScaler()
      features = ['Precio (admin_included)', 'Area Privada', 'Area', 'Estrato',
      ↪'Baños', 'Habitaciones', 'Piso']  # incluye todas las variables numéricas
      model_df[features] = scaler.fit_transform(model_df[features])
```

```python
[19]: from sklearn.cluster import KMeans
      import matplotlib.pyplot as plt
      # from sklearn.metrics import silhouette_score

      # # Determinación del número óptimo de clusters con el método del codo
      # wcss = []
      # for k in range(2, 10):
      #     kmeans = KMeans(n_clusters=k, random_state=42)
```

```python
#     kmeans.fit(model_df[features])
#     wcss.append(kmeans.inertia_)

# plt.plot(range(2, 10), wcss, marker='o')
# plt.xlabel('Número de clusters')
# plt.ylabel('WCSS')
# plt.title('Método del Codo')
# plt.show()

# # Selección de k basado en el método del codo y cálculo de la silueta

# k_opt = 2  # por ejemplo, si el codo es en 3
# kmeans = KMeans(n_clusters=k_opt, random_state=42)
# clusters = kmeans.fit_predict(model_df[features])
# score = silhouette_score(model_df[features], clusters)
# print("Silhouette Score:", score)


# model_df['Cluster'] = clusters

from sklearn.metrics import silhouette_samples, silhouette_score
import numpy as np

# Compute silhouette scores for different k values
silhouette_scores = []
k_range = range(2, 10)

for k in k_range:
    kmeans = KMeans(n_clusters=k, random_state=42, n_init=10)
    clusters = kmeans.fit_predict(model_df[features])
    silhouette_avg = silhouette_score(model_df[features], clusters)
    silhouette_scores.append(silhouette_avg)
    print(f"For n_clusters = {k}, the silhouette score is {silhouette_avg}")

# Plot silhouette scores
plt.figure(figsize=(10, 6))
plt.plot(k_range, silhouette_scores, 'o-')
plt.xlabel('Number of clusters (k)')
plt.ylabel('Silhouette Score')
plt.title('Silhouette Analysis For Optimal k')
plt.grid(True)
plt.show()

# Choose optimal k (highest silhouette score)
optimal_k = k_range[np.argmax(silhouette_scores)]
print(f"Optimal number of clusters: {optimal_k}")
```

For n_clusters = 2, the silhouette score is 0.5350571570008068

```
For n_clusters = 3, the silhouette score is 0.5269820745184624
For n_clusters = 4, the silhouette score is 0.34717431807636123
For n_clusters = 5, the silhouette score is 0.3545222439692743
For n_clusters = 6, the silhouette score is 0.3602321823810078
For n_clusters = 7, the silhouette score is 0.36662295544876755
For n_clusters = 8, the silhouette score is 0.3836718232550033
For n_clusters = 9, the silhouette score is 0.38450713069750936
```


Silhouette Analysis For Optimal k
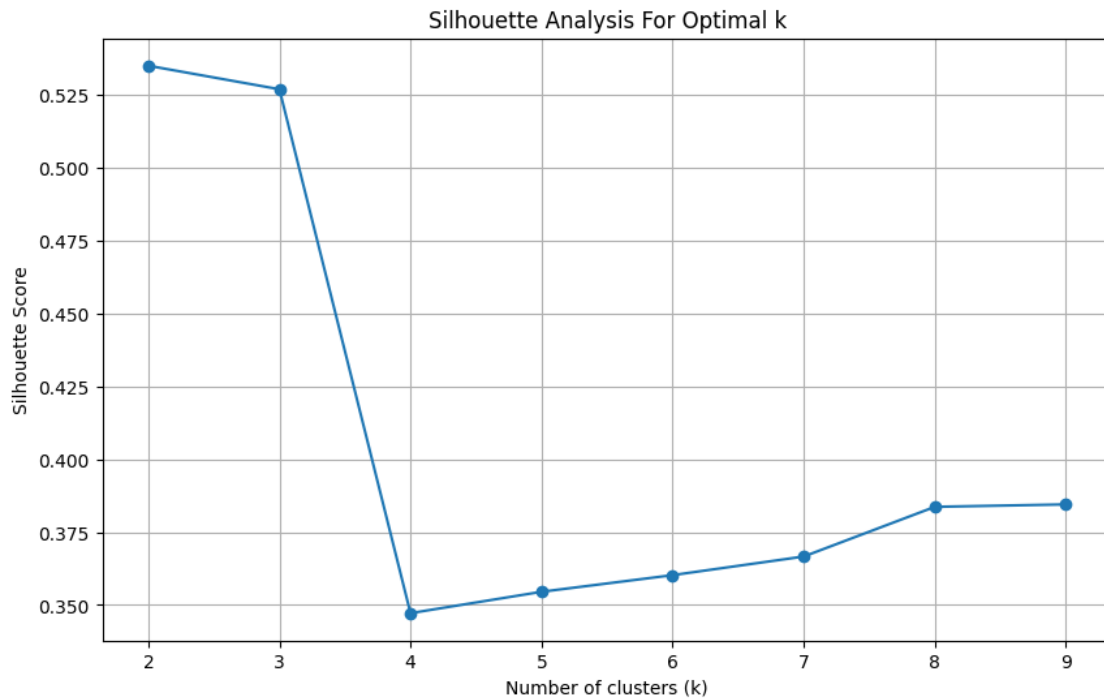
Optimal number of clusters: 2

```
[20]: # Imprimir el DataFrame completo en la consola
      model_df_original['Cluster'] = clusters
      model_df_original
      # Si prefieres guardar el DataFrame con los clusters en un CSV:
      # model_df.to_csv("df_with_clusters.csv", index=False)
```

[20]:

	Tipo de inmueble	Precio (admin_included)	Estrato	Baños	Habitaciones	\
0	Apartamento	1800000.0	4.0	1.0	1.0	
1	Apartamento	3500000.0	4.0	1.0	1.0	
2	Apartamento	1050000.0	4.0	1.0	1.0	
3	Apartamento	3500000.0	4.0	2.0	2.0	
4	Apartamento	1281000.0	4.0	1.0	1.0	
..	...	...	...	...	...	
679	Apartamento	3500000.0	4.0	1.0	2.0	
681	Apartamento	1600000.0	5.0	1.0	1.0	

```
682         Apartamento              4000000.0      4.0    2.0           4.0
683                Casa              7000000.0      4.0    0.0           1.0
684         Apartamento              1550000.0      4.0    1.0           1.0

     Parqueaderos    Area  Area Privada   Piso     Antiguedad  Precio_por_m2  \
0             0.0    22.0          22.0    2.0     9 a 15 años   81818.181818
1             0.0    31.0          31.0    0.0   menor a 1 año  112903.225806
2             0.0    45.0          45.0    2.0      1 a 8 años   23333.333333
3             1.0    68.2          68.2   14.0   menor a 1 año   51319.648094
4             1.0    17.0          17.0    0.0   menor a 1 año   75352.941176
..            ...     ...           ...    ...            ...            ...
679           0.0    90.0          90.0    0.0      1 a 8 años   38888.888889
681           0.0    18.0          16.0    2.0      1 a 8 años   88888.888889
682           1.0   168.0          22.0    4.0  más de 30 años   23809.523810
683           0.0   600.0         600.0    0.0  más de 30 años   11666.666667
684           0.0    39.0          39.0    1.0  más de 30 años   39743.589744

     Bedroom_Bath_Ratio  Size_Category_Small  Size_Category_Medium  \
0                   1.0                False                 False
1                   1.0                 True                 False
2                   1.0                 True                 False
3                   1.0                False                  True
4                   1.0                False                 False
..                  ...                  ...                   ...
679                 2.0                False                  True
681                 1.0                False                 False
682                 2.0                False                 False
683                 2.0                False                 False
684                 1.0                 True                 False

     Size_Category_Large  Size_Category_Huge  Cluster
0                  False               False        0
1                  False               False        0
2                  False               False        0
3                  False               False        2
4                  False               False        0
..                   ...                 ...      ...
679                False               False        0
681                False               False        8
682                 True               False        5
683                False                True        6
684                False               False        0

[594 rows x 17 columns]
```

```python
import pandas as pd
import numpy as np
```

```python
import matplotlib.pyplot as plt
import seaborn as sns
from sklearn.preprocessing import StandardScaler
from sklearn.cluster import KMeans, DBSCAN, AgglomerativeClustering
from sklearn.mixture import GaussianMixture
from sklearn.metrics import silhouette_score

# Assuming model_df and features are already defined

# 1. Gaussian Mixture Models
gmm = GaussianMixture(n_components=3, random_state=42)
gmm_clusters = gmm.fit_predict(model_df[features])
gmm_score = silhouette_score(model_df[features], gmm_clusters)
print(f"GMM Silhouette Score: {gmm_score}")

# 2. DBSCAN - density-based clustering
dbscan = DBSCAN(eps=0.5, min_samples=5)
dbscan_clusters = dbscan.fit_predict(model_df[features])
# Only calculate silhouette score if there's more than one cluster and no noise
 ↪points (-1)
if len(set(dbscan_clusters)) > 1 and -1 not in dbscan_clusters:
    dbscan_score = silhouette_score(model_df[features], dbscan_clusters)
    print(f"DBSCAN Silhouette Score: {dbscan_score}")
else:
    print("DBSCAN produced noise points or a single cluster. Adjust parameters.
 ↪")

# 3. Hierarchical Clustering
hc = AgglomerativeClustering(n_clusters=3)
hc_clusters = hc.fit_predict(model_df[features])
hc_score = silhouette_score(model_df[features], hc_clusters)
print(f"Hierarchical Clustering Silhouette Score: {hc_score}")

# Visualization of different clustering results using PCA
from sklearn.decomposition import PCA

pca = PCA(n_components=2)
principal_components = pca.fit_transform(model_df[features])

# Create a figure with multiple subplots
fig, axes = plt.subplots(2, 2, figsize=(15, 12))

# KMeans plot
axes[0, 0].scatter(principal_components[:, 0], principal_components[:, 1],
 ↪c=clusters, cmap='viridis')
axes[0, 0].set_title('KMeans Clustering')
```

```python
# GMM plot
axes[0, 1].scatter(principal_components[:, 0], principal_components[:, 1],
    ↪c=gmm_clusters, cmap='viridis')
axes[0, 1].set_title('Gaussian Mixture Model')

# DBSCAN plot
axes[1, 0].scatter(principal_components[:, 0], principal_components[:, 1],
    ↪c=dbscan_clusters, cmap='viridis')
axes[1, 0].set_title('DBSCAN')

# Hierarchical clustering plot
axes[1, 1].scatter(principal_components[:, 0], principal_components[:, 1],
    ↪c=hc_clusters, cmap='viridis')
axes[1, 1].set_title('Hierarchical Clustering')

plt.tight_layout()
plt.show()

# Compare the performance of different algorithms
algorithms = ['KMeans', 'GMM', 'Hierarchical']
scores = [silhouette_score(model_df[features], clusters),
          gmm_score,
          hc_score]

plt.figure(figsize=(10, 6))
sns.barplot(x=algorithms, y=scores)
plt.ylabel('Silhouette Score')
plt.title('Clustering Algorithm Comparison')
plt.ylim(0, max(scores) * 1.2)
plt.show()
```

GMM Silhouette Score: 0.1049937464367089
DBSCAN produced noise points or a single cluster. Adjust parameters.
Hierarchical Clustering Silhouette Score: 0.5152151913113655
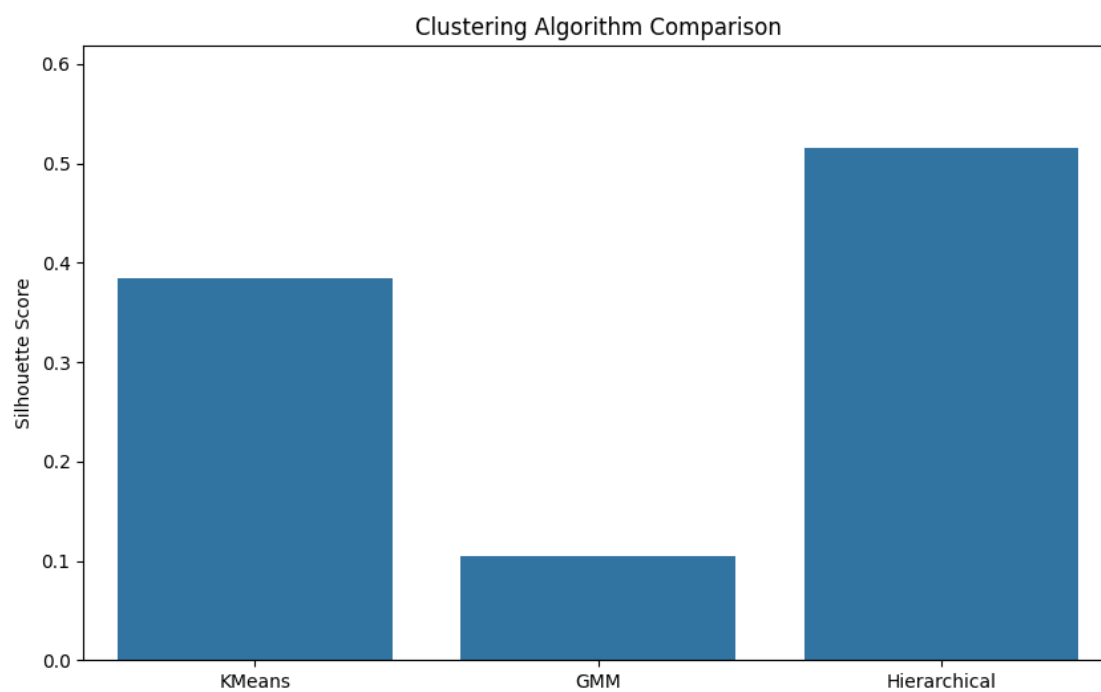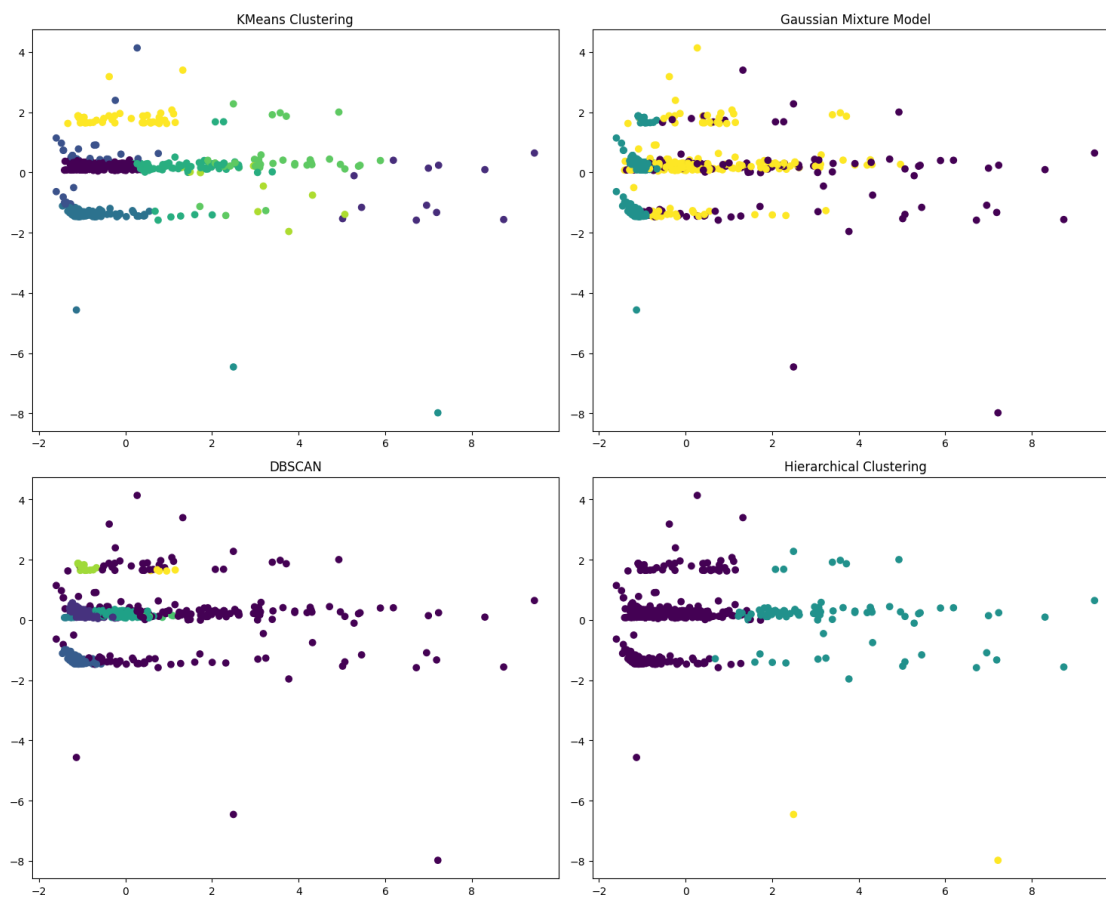
```python
[22]: import pandas as pd
      import numpy as np
      import matplotlib.pyplot as plt
      import seaborn as sns
      from scipy import stats

      # Assuming model_df_original now has the 'Cluster' column

      # Add the clusters back to the original dataframe for analysis
      # model_df_original['Cluster'] = best_model_clusters  # (use the clusters from
       ↪your best model)

      # 1. Detailed cluster profiling
      def analyze_clusters(df, cluster_column='Cluster'):
          """Analyze the characteristics of each cluster"""

          # Number of properties in each cluster
          cluster_counts = df[cluster_column].value_counts().sort_index()
          print(f"Number of properties in each cluster:\n{cluster_counts}")

          # Create a profile for each numeric column
          numeric_cols = ['Precio (admin_included)', 'Area', 'Area Privada',
                          'Estrato', 'Baños', 'Habitaciones', 'Parqueaderos', 'Piso']

          profile = df.groupby(cluster_column)[numeric_cols].agg(['mean', 'median',
       ↪'min', 'max', 'std'])
          print("\nCluster Profiles:")
          print(profile)

          # Distribution of categorical variables across clusters
          categorical_cols = ['Tipo de inmueble', 'Antiguedad']
          for col in categorical_cols:
              if col in df.columns:
                  print(f"\nDistribution of {col} across clusters:")
                  print(pd.crosstab(df[cluster_column], df[col], normalize='index'))

          return profile

      profile = analyze_clusters(model_df_original)

      # 2. Visualize the cluster profiles
      def plot_cluster_profiles(df, numeric_cols, cluster_col='Cluster'):
          """Plot radar charts to visualize cluster profiles"""
```

```python
    # Get the number of clusters
    n_clusters = df[cluster_col].nunique()

    # Calculate the mean of each feature for each cluster
    means = df.groupby(cluster_col)[numeric_cols].mean()

    # Scale the data between 0 and 1 for radar chart
    scaler = StandardScaler()
    means_scaled = pd.DataFrame(
        scaler.fit_transform(means),
        index=means.index,
        columns=means.columns
    )

    # Create a radar chart for each cluster
    fig, axes = plt.subplots(1, n_clusters, figsize=(15, 5),
 ↪subplot_kw=dict(polar=True))
    if n_clusters == 1:
        axes = [axes]

    for i, ax in enumerate(axes):
        values = means_scaled.iloc[i].values
        angles = np.linspace(0, 2*np.pi, len(numeric_cols), endpoint=False).
 ↪tolist()
        values = np.concatenate((values, [values[0]]))  # Close the loop
        angles = np.concatenate((angles, [angles[0]]))  # Close the loop

        ax.plot(angles, values, 'o-', linewidth=2)
        ax.fill(angles, values, alpha=0.25)
        ax.set_thetagrids(np.degrees(angles[:-1]), numeric_cols)
        ax.set_title(f'Cluster {i}')

    plt.tight_layout()
    plt.show()

# Plot radar charts for key numeric features
plot_features = ['Precio (admin_included)', 'Area', 'Estrato', 'Baños',
 ↪'Habitaciones', 'Parqueaderos']
plot_cluster_profiles(model_df_original, plot_features)

# 3. Box plots for key variables by cluster
def plot_boxplots(df, features, cluster_col='Cluster'):
    """Create boxplots for each feature by cluster"""

    n_features = len(features)
    fig, axes = plt.subplots(n_features, 1, figsize=(10, 4*n_features))
```

```python
    if n_features == 1:
        axes = [axes]

    for i, feature in enumerate(features):
        sns.boxplot(x=cluster_col, y=feature, data=df, ax=axes[i])
        axes[i].set_title(f'Distribution of {feature} by Cluster')

    plt.tight_layout()
    plt.show()

# Create boxplots for key features
key_features = ['Precio (admin_included)', 'Area', 'Habitaciones', 'Estrato']
plot_boxplots(model_df_original, key_features)

# 4. Scatter plot matrix for visual cluster inspection
sns.pairplot(model_df_original,
             vars=['Precio (admin_included)', 'Area', 'Habitaciones', 'Baños'],
             hue='Cluster',
             palette='viridis')
plt.suptitle('Scatter Plot Matrix by Cluster', y=1.02)
plt.show()

# 5. Statistical tests to confirm cluster differences
def test_cluster_differences(df, features, cluster_col='Cluster'):
    """Run statistical tests to confirm differences between clusters"""

    results = {}
    n_clusters = df[cluster_col].nunique()

    for feature in features:
        # For features with 2 clusters, use t-test
        if n_clusters == 2:
            cluster_0 = df[df[cluster_col] == 0][feature]
            cluster_1 = df[df[cluster_col] == 1][feature]
            t_stat, p_val = stats.ttest_ind(cluster_0, cluster_1,
 ↪equal_var=False)
            results[feature] = {'test': 't-test', 'statistic': t_stat,
 ↪'p_value': p_val}
        # For more than 2 clusters, use ANOVA
        else:
            groups = [df[df[cluster_col] == i][feature] for i in
 ↪range(n_clusters)]
            f_stat, p_val = stats.f_oneway(*groups)
            results[feature] = {'test': 'ANOVA', 'statistic': f_stat, 'p_value':
 ↪ p_val}

    return pd.DataFrame(results).T
```

```python
# Run statistical tests
stat_results = test_cluster_differences(model_df_original, key_features)
print("\nStatistical Tests for Cluster Differences:")
print(stat_results)


# 6. Market segment labeling based on cluster characteristics
def label_clusters(profile):
    """Assign business-friendly labels to clusters based on their␣
 ↪characteristics"""

    cluster_labels = {}

    # Calculate average price and area across all clusters to use as thresholds
    avg_price = profile[('Precio (admin_included)', 'mean')].mean()
    avg_area = profile[('Area', 'mean')].mean()

    for cluster in profile.index:
        # Extract key metrics for this cluster
        price = profile.loc[cluster, ('Precio (admin_included)', 'mean')]
        area = profile.loc[cluster, ('Area', 'mean')]
        rooms = profile.loc[cluster, ('Habitaciones', 'mean')]

        # Logic to assign labels based on property characteristics
        if price > avg_price:
            price_label = "Premium"
        else:
            price_label = "Budget"

        if area > avg_area:
            size_label = "Spacious"
        else:
            size_label = "Compact"

        cluster_labels[cluster] = f"{price_label} {size_label} Properties"

    return cluster_labels

# Generate business-friendly cluster labels
cluster_labels = label_clusters(profile)
print("\nCluster Market Segments:")
for cluster, label in cluster_labels.items():
    print(f"Cluster {cluster}: {label}")

# Add the labels to the original dataframe
model_df_original['Market_Segment'] = model_df_original['Cluster'].
 ↪map(cluster_labels)
```

```python
# Display sample of final dataset with clusters and labels
print("\nSample of segmented properties:")
print(model_df_original[['Tipo de inmueble', 'Precio (admin_included)', 'Area',
                         'Habitaciones', 'Cluster', 'Market_Segment']].head(10))
```

```
Number of properties in each cluster:
Cluster
0    274
1     12
2     34
3    106
4      2
5     71
6     38
7      9
8     48
Name: count, dtype: int64


Cluster Profiles:
       Precio (admin_included)                                              \
                          mean        median          min          max
Cluster
0               1.814757e+06     1650000.0     300000.0    6500000.0
1               1.239167e+07    13500000.0    5500000.0   20000000.0
2               2.240324e+06     2000000.0     977000.0    5500000.0
3               1.597577e+06     1470000.0     460000.0    7500000.0
4               6.175000e+08   617500000.0   465000000.0  770000000.0
5               5.337694e+06     4800000.0     480000.0   18500000.0
6               8.356184e+06     6500000.0     500000.0   25000000.0
7               1.285333e+07     5500000.0      50000.0   60000000.0
8               2.679319e+06     2175000.0     470000.0    8000000.0


                          Area                                     …  \
                std        mean   median    min     max        std  …
Cluster                                                              …
0       9.678014e+05   44.002555    35.0    1.0   250.0   31.210277  …
1       4.473652e+06  568.333333   600.0  321.0   960.0  154.937133  …
2       1.040361e+06   44.676471    32.5    6.0   144.0   31.030543  …
3       1.000685e+06   41.042453    31.5    1.0   200.0   33.429394  …
4       2.156676e+08  255.000000   255.0  108.0   402.0  207.889394  …
5       3.173229e+06  214.647887   220.0    6.0   680.0  116.997082  …
6       5.588132e+06  406.368421   387.0   12.0   780.0  136.810467  …
7       1.916127e+07   63.444444    10.0    1.0   320.0  115.520681  …
8       1.738182e+06   67.322917    47.8    6.0   450.0   72.319940  …


        Parqueaderos                                  Piso                   \
              mean median   min    max        std      mean median  min   max
```

```
Cluster
0           0.335766    0.0  0.0    2.0  0.517494  1.558394    1.0  0.0    5.0
1           3.833333    4.0  0.0    9.0  2.552479  1.333333    1.0  0.0    4.0
2           0.911765    1.0  0.0   10.0  1.747165  9.411765    8.0  6.0   18.0
3           0.273585    0.0  0.0   10.0  1.028480  1.811321    2.0  0.0    6.0
4           2.000000    2.0  1.0    3.0  1.414214  1.500000    1.5  1.0    2.0
5           1.450704    1.0  0.0    5.0  1.251156  1.084507    1.0  0.0    6.0
6           2.210526    2.0  0.0    5.0  1.662917  1.105263    0.0  0.0    6.0
7           4.000000    3.0  0.0   10.0  4.387482  1.666667    2.0  0.0    4.0
8           0.854167    1.0  0.0    5.0  1.031206  1.770833    1.5  0.0    7.0


               std
Cluster
0         1.575413
1         1.497473
2         3.602336
3         1.690946
4         0.707107
5         1.295558
6         1.502961
7         1.414214
8         1.859302

[9 rows x 40 columns]

Distribution of Tipo de inmueble across clusters:
Tipo de inmueble  Apartamento        Casa
Cluster
0                    0.981752  0.018248
1                    0.000000  1.000000
2                    1.000000  0.000000
3                    0.971698  0.028302
4                    0.500000  0.500000
5                    0.422535  0.577465
6                    0.078947  0.921053
7                    0.444444  0.555556
8                    0.979167  0.020833

Distribution of Antiguedad across clusters:
Antiguedad  1 a 8 años  16 a 30 años  9 a 15 años  menor a 1 año  \
Cluster
0             0.248175      0.200730     0.164234       0.131387
1             0.000000      0.250000     0.083333       0.000000
2             0.382353      0.058824     0.088235       0.323529
3             0.245283      0.188679     0.122642       0.150943
4             0.000000      0.000000     0.500000       0.000000
5             0.056338      0.295775     0.056338       0.042254
```

6	0.026316	0.210526	0.105263	0.000000
7	0.222222	0.111111	0.000000	0.111111
8	0.333333	0.250000	0.125000	0.041667

Antiguedad más de 30 años
Cluster
0	0.255474
1	0.666667
2	0.147059
3	0.292453
4	0.500000
5	0.549296
6	0.657895
7	0.555556
8	0.250000

Cluster 0 Cluster 1 Cluster 2 Cluster 3 Cluster 4 Cluster 5 Cluster 6 Cluster 7 Cluster 8
Pre(admin_included)Pre(admin_included)Pre(admin_included)Pre(admin_included)Pre(admin_included)Pre(admin_included)Pre(admin_included)Pre(admin_included)Pre(admin_included)
Habitaquederos Habitaquederos Habitaquederos Habitaquederos Habitaquederos Habitaquederos Habitaquederos Habitaquederos Habitaquederos

Distribution of Precio (admin_included) by Cluster

Distribution of Area by Cluster

Distribution of Habitaciones by Cluster

Distribution of Estrato by Cluster

Scatter Plot Matrix by Cluster
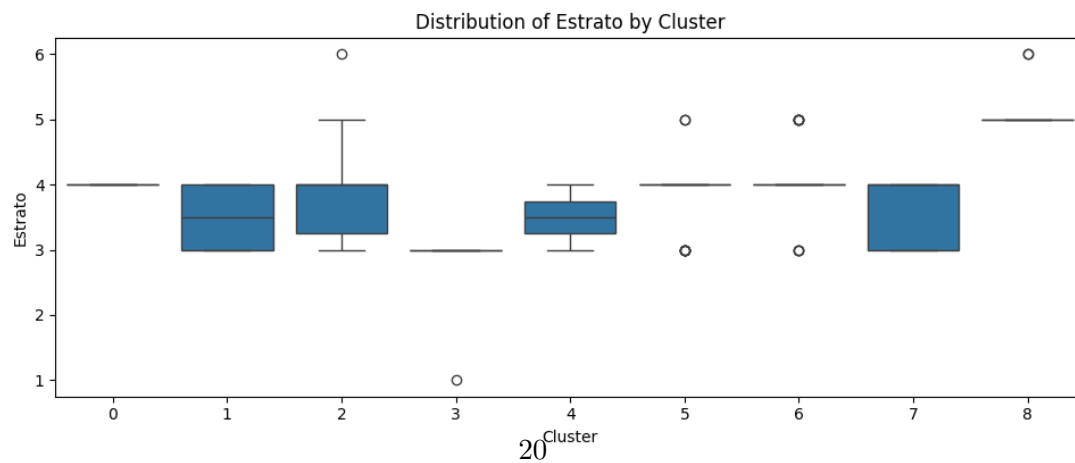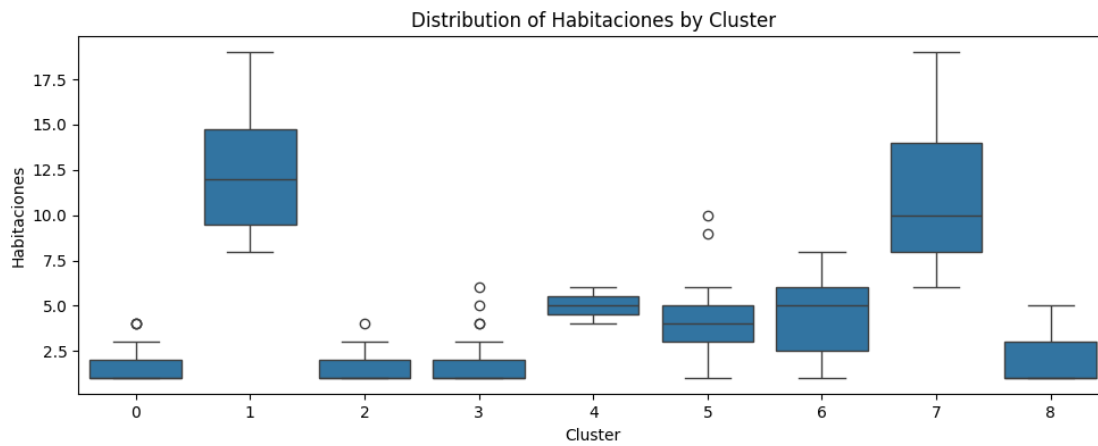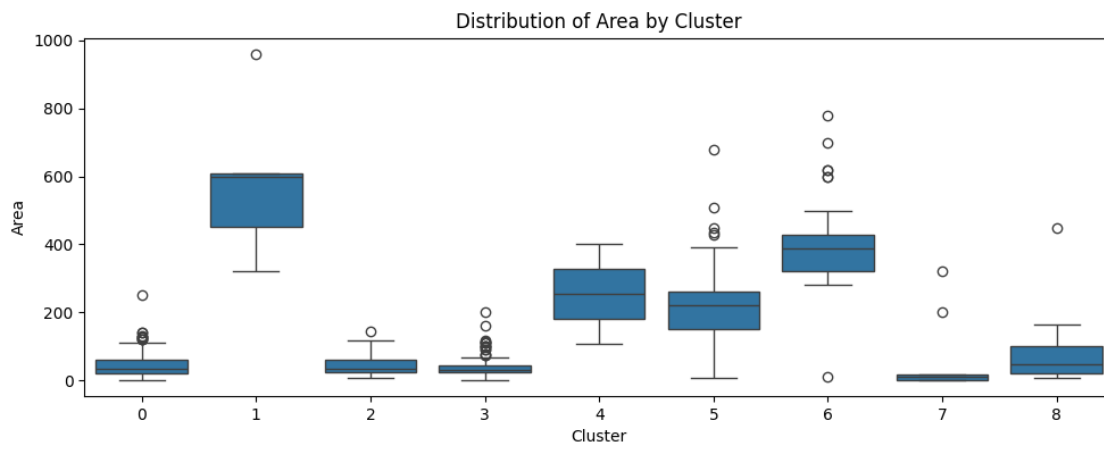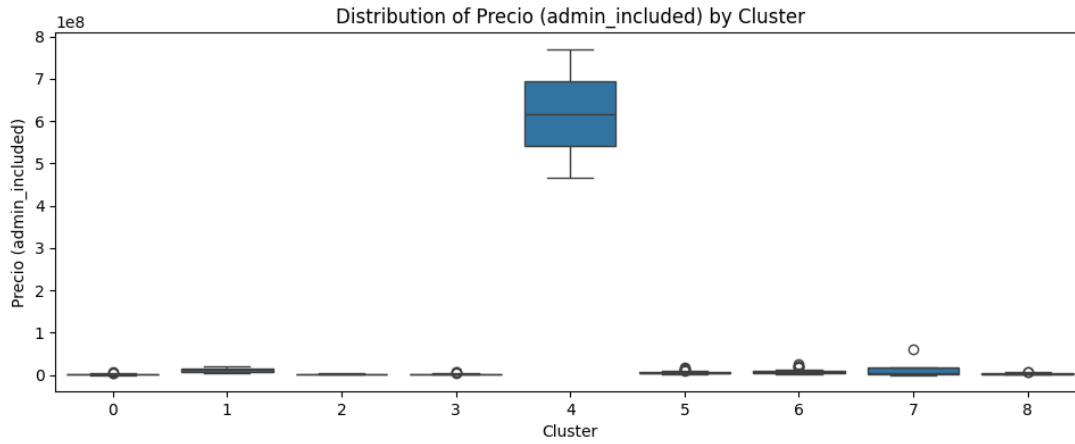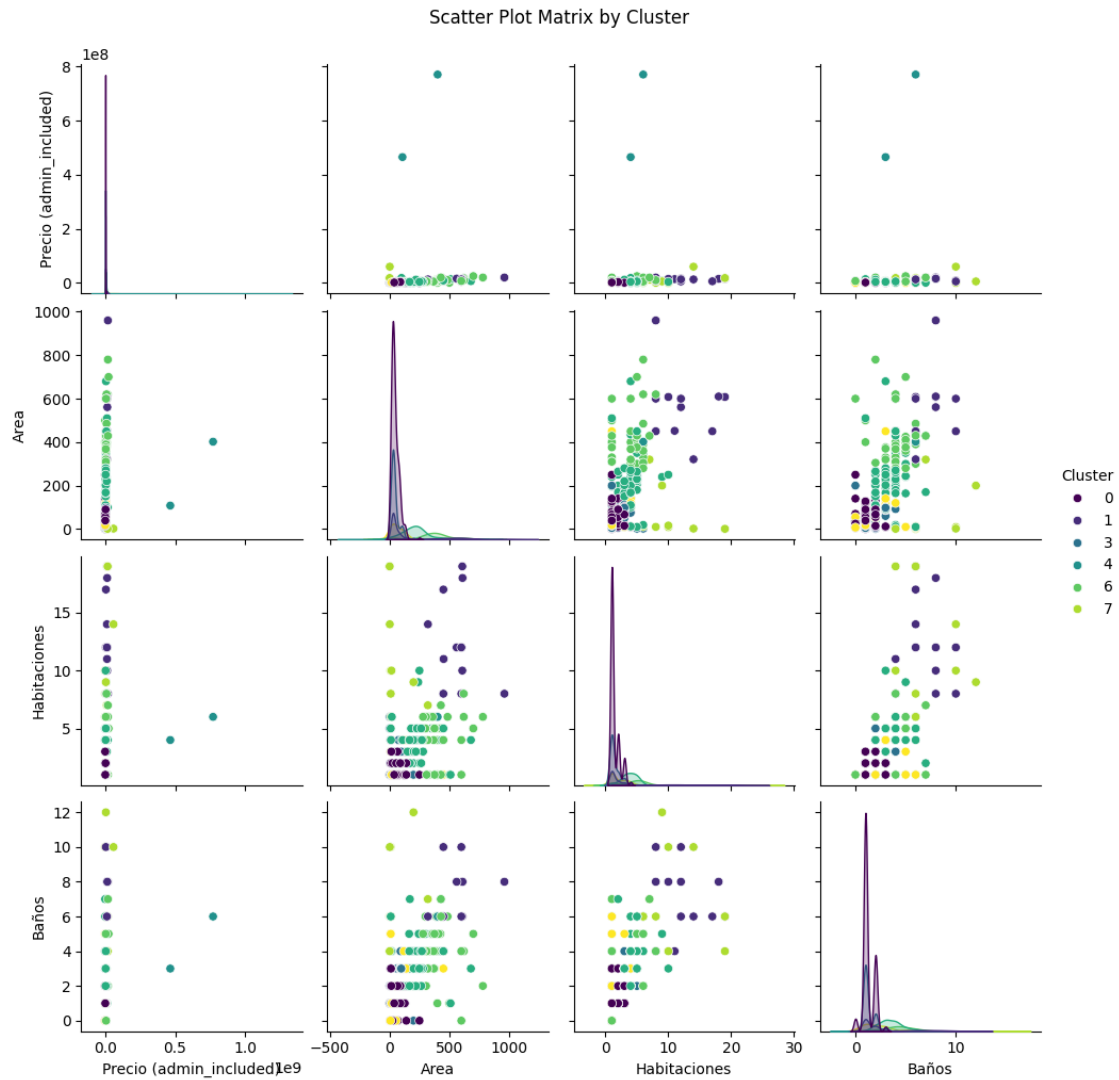

```
Statistical Tests for Cluster Differences:
                         test    statistic p_value
Precio (admin_included)  ANOVA  1062.379206     0.0
Area                     ANOVA   230.053209     0.0
Habitaciones             ANOVA   193.548594     0.0
Estrato                  ANOVA   289.443731     0.0

Cluster Market Segments:
Cluster 0: Budget Compact Properties
Cluster 1: Budget Spacious Properties
Cluster 2: Budget Compact Properties
```

```
Cluster 3: Budget Compact Properties
Cluster 4: Premium Spacious Properties
Cluster 5: Budget Spacious Properties
Cluster 6: Budget Spacious Properties
Cluster 7: Budget Compact Properties
Cluster 8: Budget Compact Properties

Sample of segmented properties:
    Tipo de inmueble  Precio (admin_included)   Area  Habitaciones  Cluster  \
0         Apartamento                1800000.0   22.0           1.0        0
1         Apartamento                3500000.0   31.0           1.0        0
2         Apartamento                1050000.0   45.0           1.0        0
3         Apartamento                3500000.0   68.2           2.0        2
4         Apartamento                1281000.0   17.0           1.0        0
6         Apartamento                1450000.0   26.0           1.0        3
8                Casa                6000000.0  380.0           5.0        6
9         Apartamento                2300000.0   19.0           1.0        0
10               Casa               15000000.0  608.0          19.0        1
11        Apartamento                 550000.0   70.0           1.0        0

              Market_Segment
0    Budget Compact Properties
1    Budget Compact Properties
2    Budget Compact Properties
3    Budget Compact Properties
4    Budget Compact Properties
6    Budget Compact Properties
8   Budget Spacious Properties
9    Budget Compact Properties
10  Budget Spacious Properties
11   Budget Compact Properties
```

```python
[23]: from sklearn.model_selection import GridSearchCV
      from sklearn.cluster import KMeans
      from sklearn.metrics import make_scorer, silhouette_score

      # Define parameter grid
      param_grid = {
          'n_clusters': range(2, 10),
          'init': ['k-means++', 'random'],
          'n_init': [10, 15, 20],
          'max_iter': [300, 500]
      }

      # Create a custom scorer
      silhouette_scorer = make_scorer(silhouette_score, greater_is_better=True)
```

```python
# Initialize GridSearchCV
grid_search = GridSearchCV(
    KMeans(),
    param_grid,
    scoring=silhouette_scorer,
    cv=5  # Using 5-fold cross-validation
)

# Fit the model
grid_search.fit(model_df[features])

# Get the best parameters
print("Best parameters:", grid_search.best_params_)
print("Best silhouette score:", grid_search.best_score_)

# Use the best model for final clustering
best_kmeans = grid_search.best_estimator_
final_clusters = best_kmeans.predict(model_df[features])
```

/home/manolo/2024-II/REDES/entregable/env/lib/python3.12/site-packages/sklearn/model_selection/_validation.py:960: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/home/manolo/2024-II/REDES/entregable/env/lib/python3.12/site-packages/sklearn/model_selection/_validation.py", line 947, in _score
    scores = scorer(estimator, X_test, **score_params)
             ~~~~~~
TypeError: _BaseScorer.__call__() missing 1 required positional argument: 'y_true'

  warnings.warn(
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Best parameters: {'init': 'k-means++', 'max_iter': 300, 'n_clusters': 2,
'n_init': 10}
Best silhouette score: nan

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/home/manolo/2024-II/REDES/entregable/env/lib/python3.12/site-
packages/sklearn/model_selection/_search.py:1108: UserWarning: One or more of
the test scores are non-finite: [nan nan nan nan nan nan nan nan nan nan nan nan
nan nan nan nan nan nan
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 nan nan nan nan nan nan nan nan nan nan nan nan nan nan nan nan nan nan
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 nan nan nan nan nan nan nan nan nan nan nan nan nan nan nan nan nan nan
 nan nan nan nan nan nan]
  warnings.warn(
```

```python
from sklearn.metrics import davies_bouldin_score, calinski_harabasz_score

# Davies-Bouldin Index (lower is better)
db_score = davies_bouldin_score(model_df[features], final_clusters)
print(f"Davies-Bouldin Score: {db_score}")

# Calinski-Harabasz Index (higher is better)
ch_score = calinski_harabasz_score(model_df[features], final_clusters)
print(f"Calinski-Harabasz Score: {ch_score}")
```

Davies-Bouldin Score: 1.0839082064066552
Calinski-Harabasz Score: 267.89173546375105

```
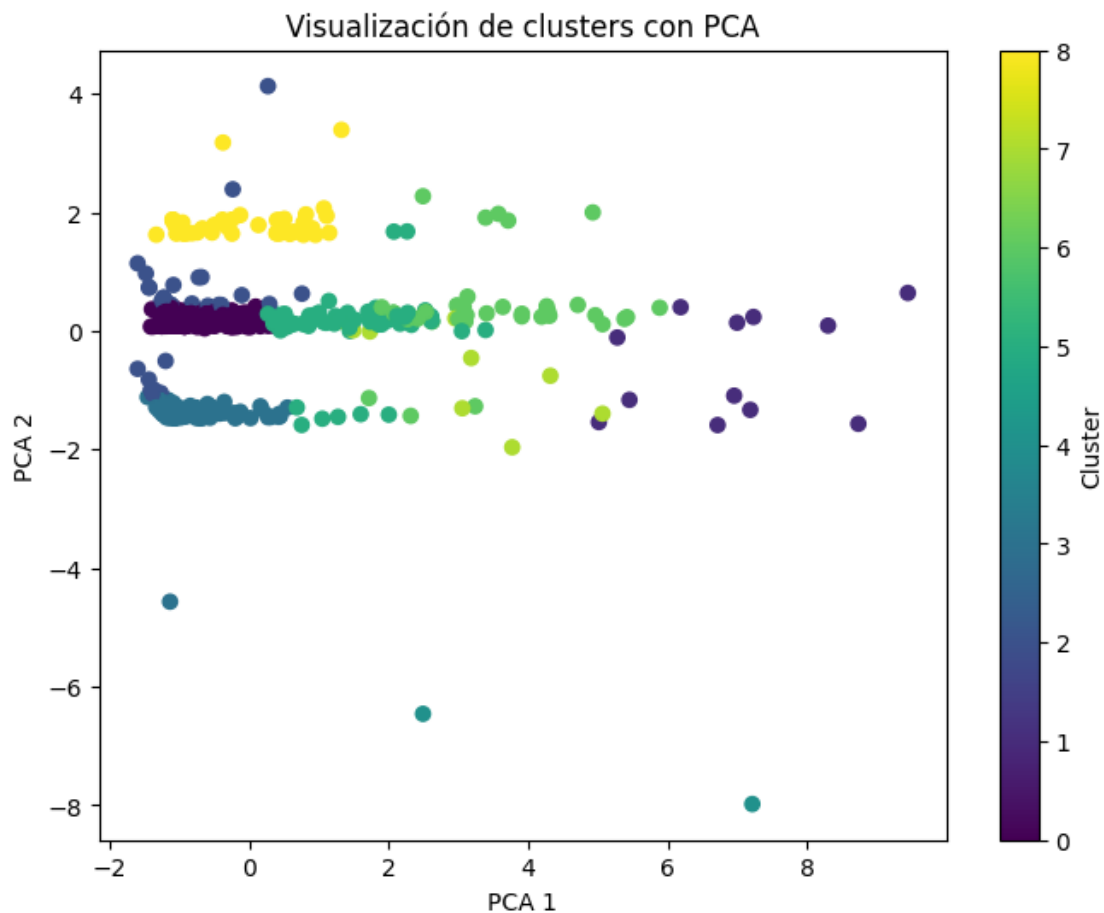[25]: from sklearn.decomposition import PCA

      pca = PCA(n_components=2)
      principal_components = pca.fit_transform(model_df[features])
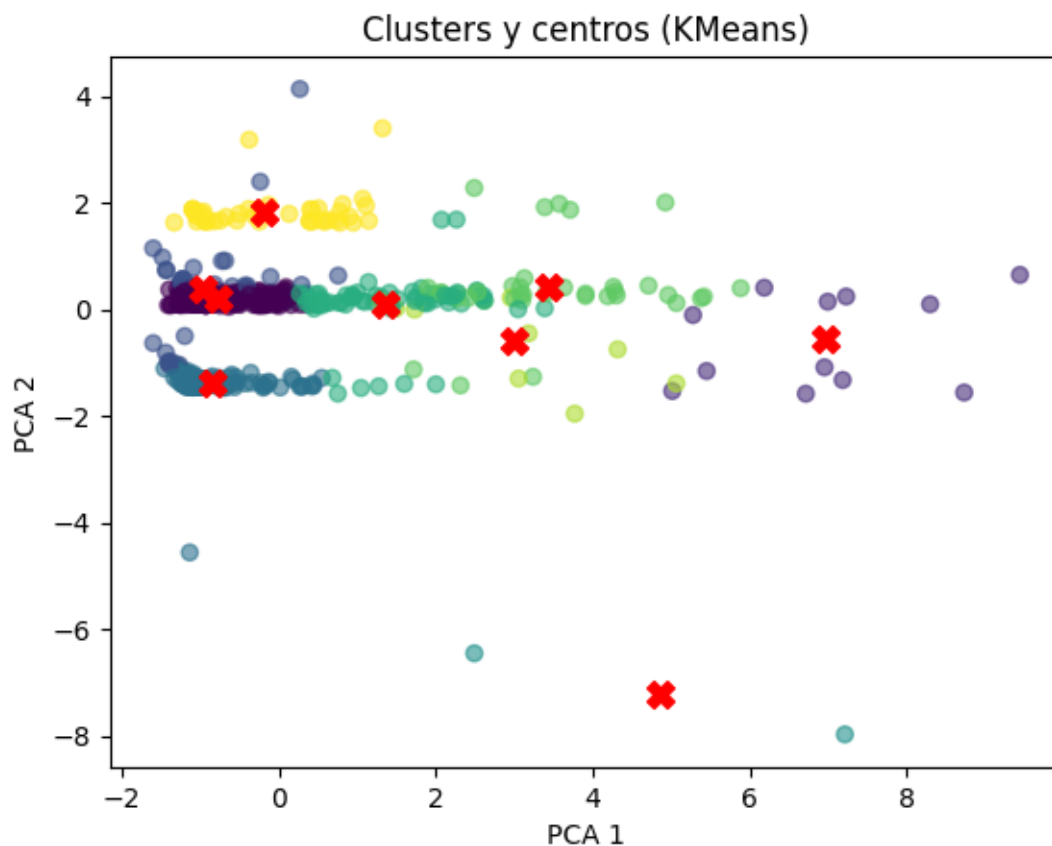
      plt.figure(figsize=(8,6))
      plt.scatter(principal_components[:, 0], principal_components[:, 1], c=clusters,␣
        ↪cmap='viridis')
      plt.xlabel('PCA 1')
      plt.ylabel('PCA 2')
      plt.title('Visualización de clusters con PCA')
      plt.colorbar(label='Cluster')
      plt.show()
```



```
[26]: centers = kmeans.cluster_centers_
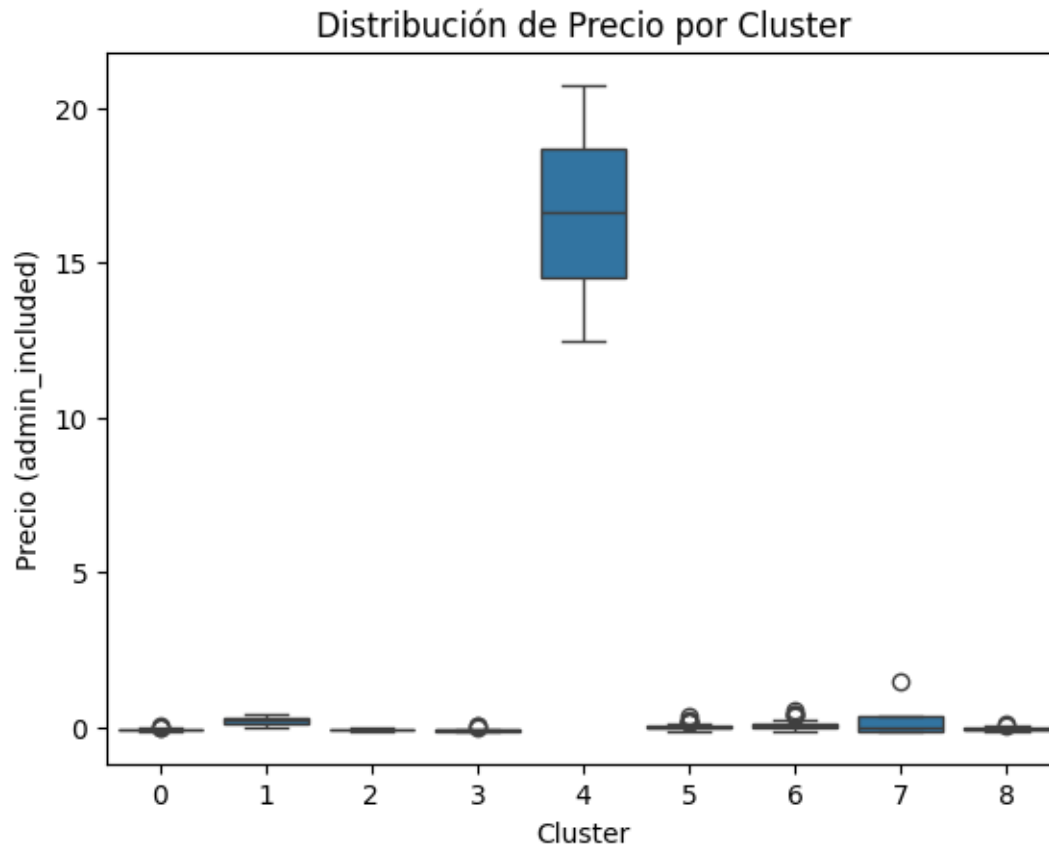      centers_pca = pca.transform(centers)
```

```python
plt.scatter(principal_components[:, 0], principal_components[:, 1], c=clusters,␣
 ↪cmap='viridis', alpha=0.6)
plt.scatter(centers_pca[:, 0], centers_pca[:, 1], c='red', s=100, marker='X')
plt.xlabel('PCA 1')
plt.ylabel('PCA 2')
plt.title('Clusters y centros (KMeans)')
plt.show()
```

/home/manolo/2024-II/REDES/entregable/env/lib/python3.12/site-
packages/sklearn/utils/validation.py:2739: UserWarning: X does not have valid
feature names, but PCA was fitted with feature names
  warnings.warn(


```python
[27]: import seaborn as sns

model_df['Cluster'] = clusters
sns.boxplot(x='Cluster', y='Precio (admin_included)', data=model_df)
plt.title('Distribución de Precio por Cluster')
plt.show()
```

Distribución de Precio por Cluster


```
[28]: corr_matrix = model_df.corr()
      print("Correlación de las variables con el Precio:")
      print(corr_matrix['Precio (admin_included)'].sort_values(ascending=False))
```

```
Correlación de las variables con el Precio:
Precio (admin_included)    1.000000
Baños                      0.162788
Precio_por_m2              0.154236
Area Privada               0.150954
Area                       0.145256
Habitaciones               0.135333
Tipo de inmueble_Casa      0.134625
Parqueaderos               0.132018
Size_Category_Large        0.100710
Cluster                    0.067231
Antiguedad_más de 30 años  0.061318
Size_Category_Huge         0.039059
Antiguedad_9 a 15 años     0.032484
Size_Category_Medium       0.028027
Bedroom_Bath_Ratio         0.017675
```

```
Estrato                      -0.015514
Piso                         -0.017593
Antiguedad_menor a 1 año     -0.029270
Antiguedad_16 a 30 años      -0.029851
Size_Category_Small          -0.051850
Name: Precio (admin_included), dtype: float64
```

[29]:
```python
plt.figure(figsize=(10,8))
sns.heatmap(corr_matrix, annot=True, cmap='coolwarm')
plt.title('Matriz de correlación')
plt.show()
```


Matriz de correlación