Marriage Proposal Acceptance or Rejection Prediction using Machine Learning



```
In [1]: import numpy as np
         import pandas as pd
         import matplotlib.pyplot as plt
         import seaborn as sns
In [2]: import warnings
         warnings.filterwarnings('ignore')
In [3]: df = pd.read csv("marriage proposal.csv")
In [4]: df
Out[4]:
                                    RomanticGestureScore CompatibilityScore CommunicationScore DistanceKM Response AgeCategory
               Height Age Income
                                                       3
            0
                              7977
                                                                                                          45
                  156
                        59
                                                                                                                              Senior
                              5842
                                                       0
                                                                                               5
                  169
                        32
                                                                                                          46
                                                                                                                          Middle-aged
                  178
                        42
                             17638
                                                       2
                                                                          5
                                                                                               5
                                                                                                          13
                                                                                                                      0
                                                                                                                          Middle-aged
            3
                  164
                        78
                              8793
                                                       0
                                                                          0
                                                                                               7
                                                                                                          52
                                                                                                                      0
                                                                                                                              Senior
                                                                          0
                                                                                               0
                                                                                                           9
                                                       6
                                                                                                                          Middle-aged
            4
                  160
                        35
                             15262
                                                                                                                      1
         9995
                  162
                        76
                             12311
                                                       4
                                                                          1
                                                                                               5
                                                                                                          75
                                                                                                                              Senior
         9996
                  162
                        75
                              6459
                                                       7
                                                                          9
                                                                                               0
                                                                                                          52
                                                                                                                               Senior
         9997
                  166
                        70
                              9231
                                                       9
                                                                          4
                                                                                               6
                                                                                                          33
                                                                                                                      0
                                                                                                                              Senior
                        78
                                                       8
                                                                          9
                                                                                               5
                                                                                                                              Senior
         9998
                  176
                             12656
                                                                                                          25
                  156
                              5812
                                                       0
                                                                                                          14
         9999
                                                                                                                               Senior
        10000 rows × 9 columns
In [5]:
        df.shape
         (10000, 9)
In [6]: df.columns
Out[6]: Index(['Height', 'Age', 'Income', 'RomanticGestureScore', 'CompatibilityScore',
                 'CommunicationScore', 'DistanceKM', 'Response', 'AgeCategory'],
                dtype='object')
In [7]: df.duplicated().sum()
```

Out[7]: 0

```
In [8]: df.isnull().sum()
 Out[8]: Height
                                      0
                                      0
          Age
          Income
                                      0
          {\tt RomanticGestureScore}
                                      0
          CompatibilityScore
                                      0
          CommunicationScore
                                      0
          DistanceKM
                                      0
          Response
                                      0
                                    153
          AgeCategory
          dtype: int64
 In [9]: df.info()
        <class 'pandas.core.frame.DataFrame'>
        RangeIndex: 10000 entries, 0 to 9999
        Data columns (total 9 columns):
            Column
                                     Non-Null Count Dtype
         - - -
         0
             Height
                                     10000 non-null
                                                      int64
                                     10000 non-null int64
         1
              Age
         2
              Income
                                     10000 non-null int64
         3
              RomanticGestureScore 10000 non-null int64
         4
              CompatibilityScore
                                     10000 non-null
                                                      int64
                                     10000 non-null int64
         5
              CommunicationScore
             DistanceKM
                                     10000 non-null int64
         6
         7
                                     10000 non-null int64
             Response
         8
             AgeCategory
                                     9847 non-null
                                                      object
        dtypes: int64(8), object(1)
        memory usage: 703.2+ KB
In [10]: df.describe()
                      Height
                                      Age
                                                Income RomanticGestureScore CompatibilityScore CommunicationScore
                                                                                                                    DistanceKM
          count 10000.000000 10000.000000
                                          10000.000000
                                                                10000.000000
                                                                                  10000.000000
                                                                                                      10000.000000
                                                                                                                   10000.000000
                   165 170500
                                 49 878300
                                          12441 388000
                                                                                                          4 543400
                                                                                                                      49 879600
                                                                    4 965000
                                                                                      4 589000
          mean
                    8.907635
            std
                                 17.599059
                                            4310.645672
                                                                    3.140376
                                                                                      2.859702
                                                                                                          2.870564
                                                                                                                      28.598155
            min
                   150.000000
                                 20.000000
                                            5000.000000
                                                                    0.000000
                                                                                      0.000000
                                                                                                          0.000000
                                                                                                                       1.000000
           25%
                   157.000000
                                 35.000000
                                            8684.750000
                                                                    2.000000
                                                                                      2.000000
                                                                                                          2.000000
                                                                                                                      25.000000
           50%
                   165 000000
                                 50 000000 12432 000000
                                                                    5.000000
                                                                                      5 000000
                                                                                                          5 000000
                                                                                                                      50 000000
           75%
                   173.000000
                                 65.000000
                                          16113.250000
                                                                    8.000000
                                                                                      7.000000
                                                                                                          7.000000
                                                                                                                      75.000000
                   180.000000
                                 80.000000
                                          19999.000000
                                                                    10.000000
                                                                                      9.000000
                                                                                                          9.000000
                                                                                                                      99.000000
           max
In [11]: df.nunique()
Out[11]: Height
                                      31
                                      61
          Age
          Income
                                    7307
          RomanticGestureScore
                                      11
          CompatibilityScore
                                      10
          CommunicationScore
                                      10
          DistanceKM
                                      99
          Response
                                       2
          AgeCategory
                                       3
          dtype: int64
In [12]: object_columns = df.select_dtypes(include=['object']).columns
          print("Object type columns:")
          print(object_columns)
          numerical_columns = df.select_dtypes(include=['int64', 'float64']).columns
          print("\nNumerical type columns:")
          print(numerical_columns)
        Object type columns:
        Index(['AgeCategory'], dtype='object')
        Numerical type columns:
        Index(['Height', 'Age', 'Income', 'RomanticGestureScore', 'CompatibilityScore',
                'CommunicationScore', 'DistanceKM', 'Response'],
               dtype='object')
In [13]: def classify features(df):
              categorical features = []
              non_categorical_features = []
              discrete_features = []
```

```
continuous_features = []
             for column in df.columns:
                  if df[column].dtype == 'object':
                     if df[column].nunique() < 10:</pre>
                          categorical_features.append(column)
                      else:
                          non_categorical_features.append(column)
                  elif df[column].dtype in ['int64', 'float64']:
                      if df[column].nunique() < 10:</pre>
                          discrete_features.append(column)
                      else.
                          continuous_features.append(column)
             return categorical features, non categorical features, discrete features, continuous features
In [14]: categorical, non categorical, discrete, continuous = classify features(df)
In [15]: print("Categorical Features:", categorical)
         print("Non-Categorical Features:", non_categorical)
         print("Discrete Features:", discrete)
         print("Continuous Features:", continuous)
        Categorical Features: ['AgeCategory']
        Non-Categorical Features: []
        Discrete Features: ['Response']
        Continuous Features: ['Height', 'Age', 'Income', 'RomanticGestureScore', 'CompatibilityScore', 'CommunicationSco
        re', 'DistanceKM']
In [16]: null_counts = df.isnull().sum()
         null_columns = null_counts[null_counts > 0].index.tolist()
In [17]: null_counts
Out[17]: Height
                                    0
          Age
                                    0
          Income
          RomanticGestureScore
                                    0
          CompatibilityScore
                                    0
          {\tt CommunicationScore}
                                    0
          DistanceKM
                                    0
                                    0
          Response
          AgeCategory
                                  153
          dtype: int64
In [18]: null_columns
Out[18]: ['AgeCategory']
In [19]: for column in null columns:
             null count = null counts[column]
             print(f"Column '{column}' has {null count} null values.")
        Column 'AgeCategory' has 153 null values.
In [20]: total rows = len(df)
         null_percentage = (null_counts / total_rows) * 100
In [21]: null_df = pd.DataFrame({
              'Column': null counts.index,
              'Null Count': null counts.values,
              'Null Percentage': null_percentage.values
         })
In [22]: null_df = null_df.sort_values(by='Null Count', ascending=False)
In [23]: null_df
```

```
1
                            Age
                                        0
                                                     0.00
          2
                                        0
                                                     0.00
                         Income
                                        0
                                                     0.00
            RomanticGestureScore
          3
                                         0
                                                     0.00
                CompatibilityScore
          5
              CommunicationScore
                                        0
                                                     0.00
          6
                                                     0.00
                     DistanceKM
                                        0
          7
                                        0
                                                     0.00
                       Response
In [24]: df['AgeCategory'] = df['AgeCategory'].fillna('Not Available')
In [25]: df.isnull().sum()
Out[25]: Height
                                    0
                                   0
          Age
          Income
                                    0
          {\tt RomanticGestureScore}
                                   0
          CompatibilityScore
                                   0
          CommunicationScore
                                   0
          DistanceKM
                                    0
          Response
                                   0
          AgeCategory
                                   0
          dtype: int64
In [26]: df['AgeCategory'].unique()
Out[26]: array(['Senior', 'Middle-aged', 'Young', 'Not Available'], dtype=object)
In [27]: df['AgeCategory'].value_counts()
          AgeCategory
Out[27]:
                            4843
          Senior
          Middle-aged
                            3399
          Young
                            1605
          Not Available
                            153
          Name: count, dtype: int64
In [28]: plt.figure(figsize=(15,6))
          sns.countplot(x = 'AgeCategory', data = df, palette='hls')
          plt.show()
          5000
          4000
          3000
          2000
```

Column Null Count Null Percentage

153

0

1.53

0.00

AgeCategory

Height

Out[23]:

8

0

1000

0

Senior

```
In [29]: age_counts = df['AgeCategory'].value_counts()

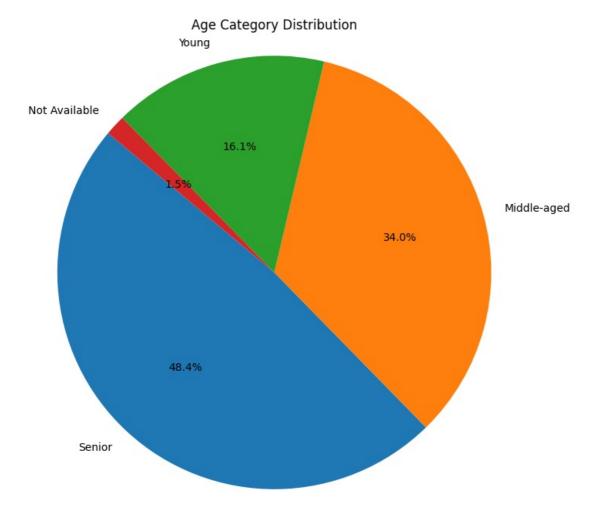
plt.figure(figsize=(8, 8))
plt.pie(age_counts, labels=age_counts.index, autopct='%1.1f%%', startangle=140)
plt.axis('equal')
plt.title('Age Category Distribution')
plt.show()
```

AgeCategory

Young

Middle-aged

Not Available



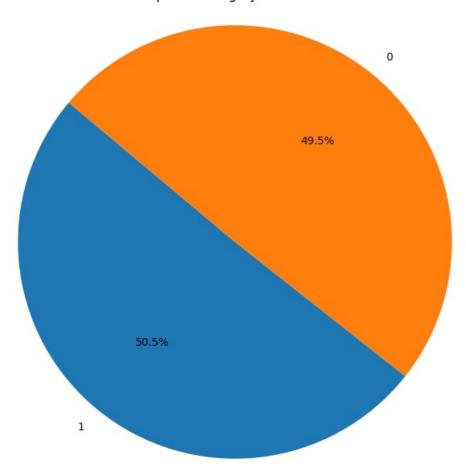
In [30]: df['Response'].unique()

```
Out[30]: array([1, 0], dtype=int64)
In [31]: df['Response'].value_counts()
Out[31]: Response
               5047
               4953
          Name: count, dtype: int64
In [32]:
         plt.figure(figsize=(15,6))
          sns.countplot(x = 'Response', data = df, palette='hls')
          plt.show()
          5000
          4000
          3000
          2000
             0
                                         ò
                                                                  Response
```

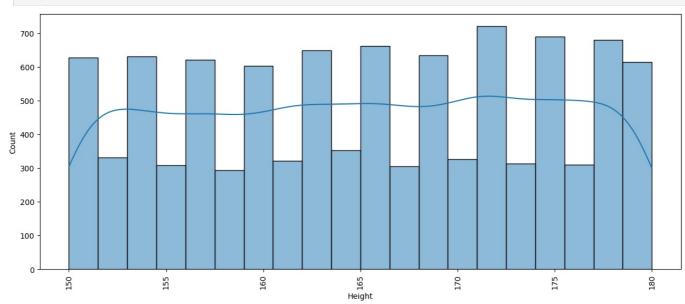
```
In [33]: response_counts = df['Response'].value_counts()

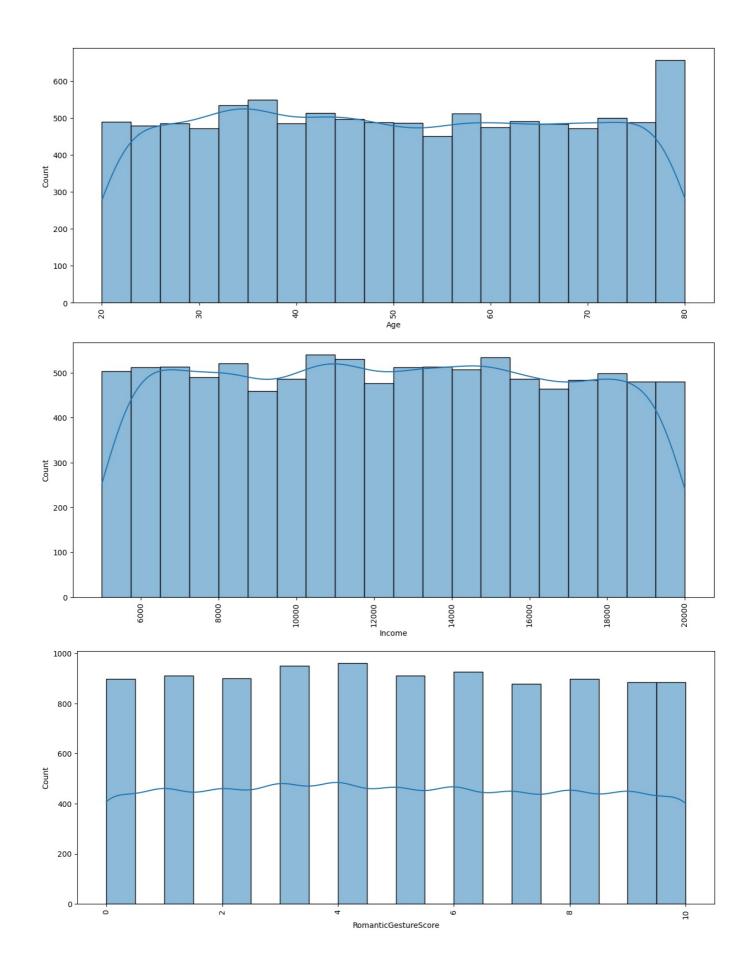
plt.figure(figsize=(8, 8))
plt.pie(response_counts, labels=response_counts.index, autopct='%1.1f%%', startangle=140)
plt.axis('equal')
plt.title('Response Category Distribution')
```

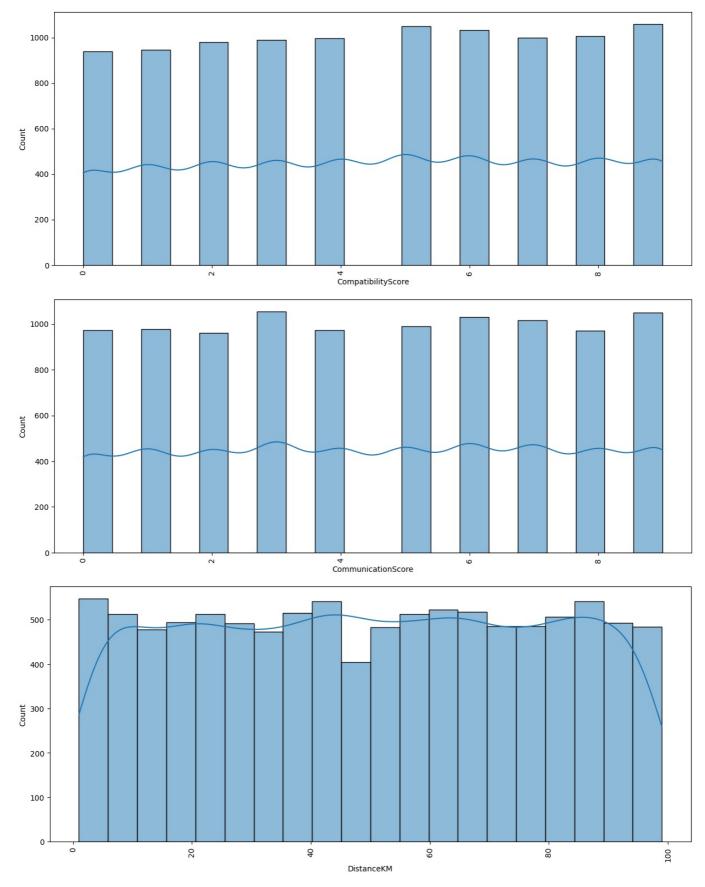
Response Category Distribution



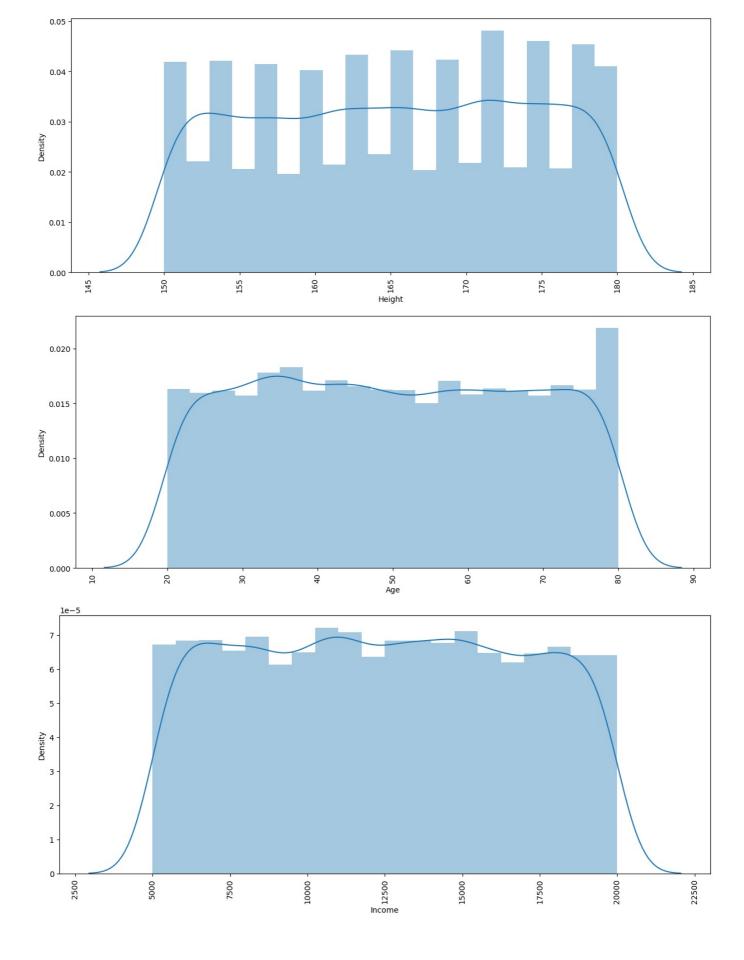


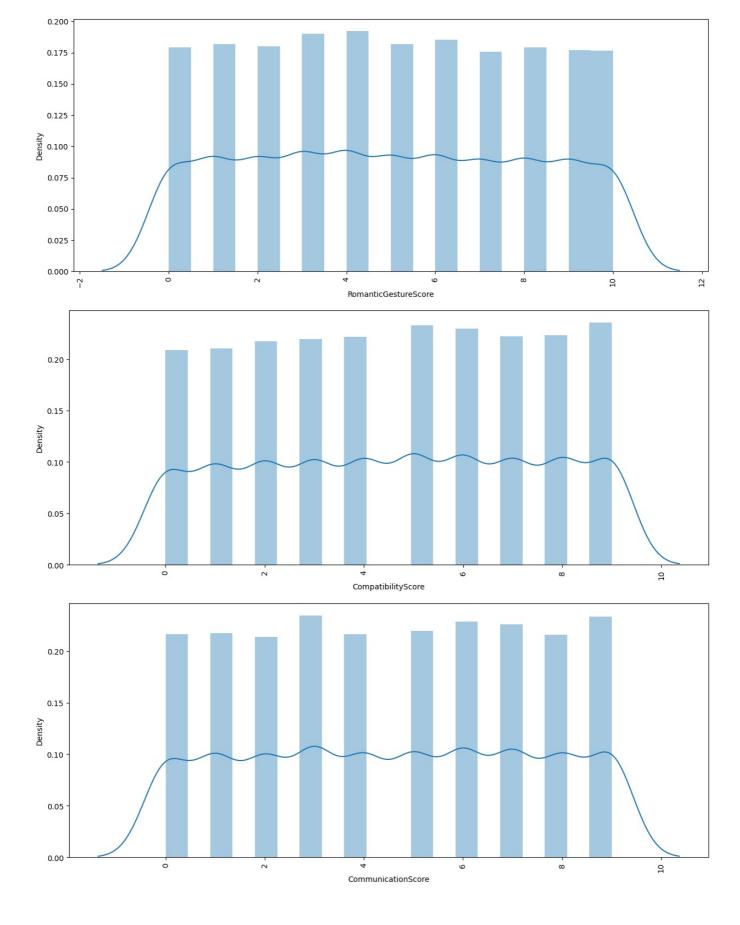


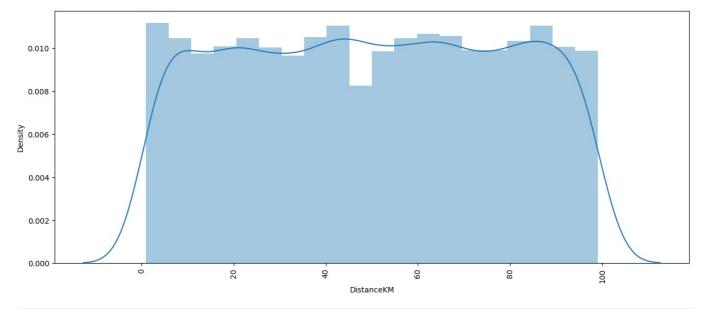


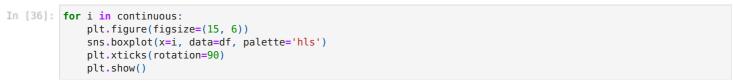


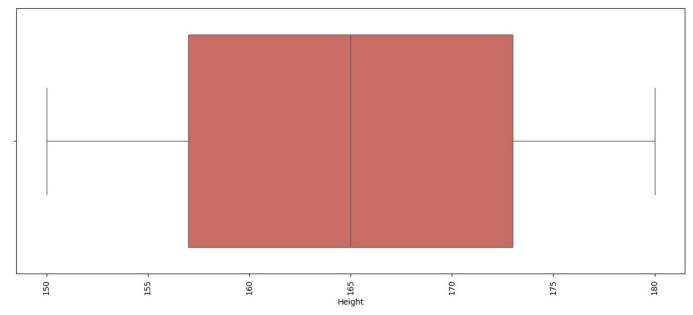
```
In [35]: for i in continuous:
    plt.figure(figsize=(15,6))
    sns.distplot(df[i], bins = 20, kde = True)
    plt.xticks(rotation = 90)
    plt.show()
```

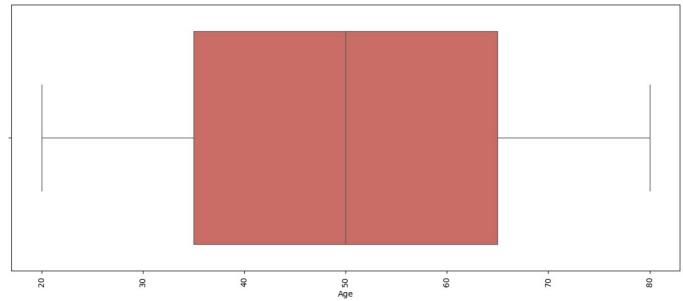


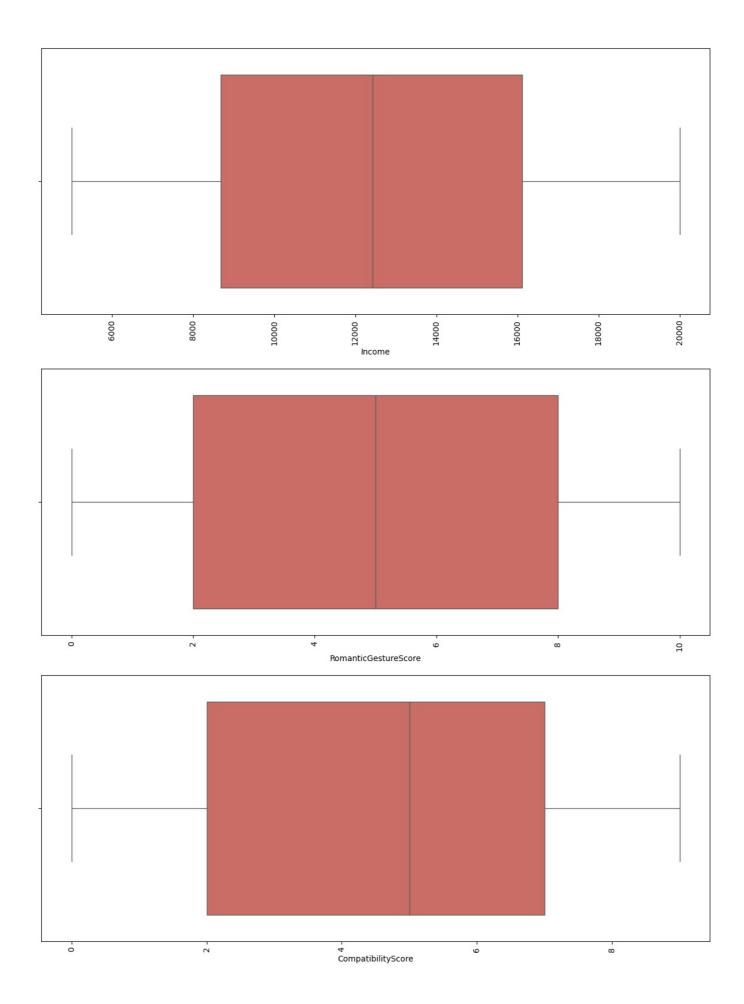


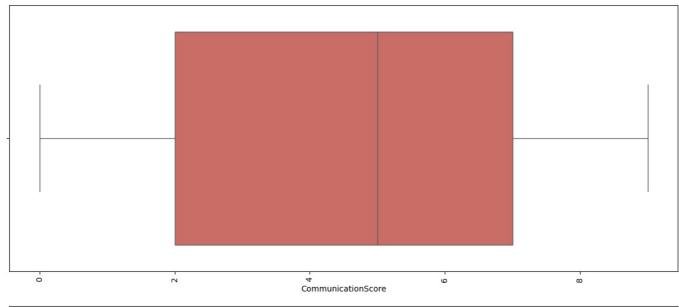


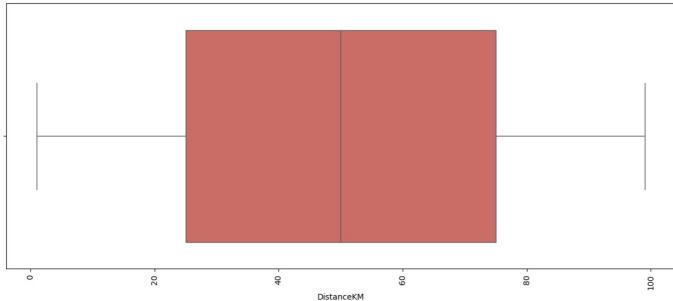




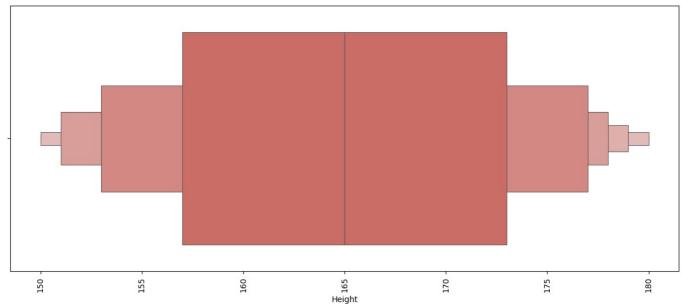


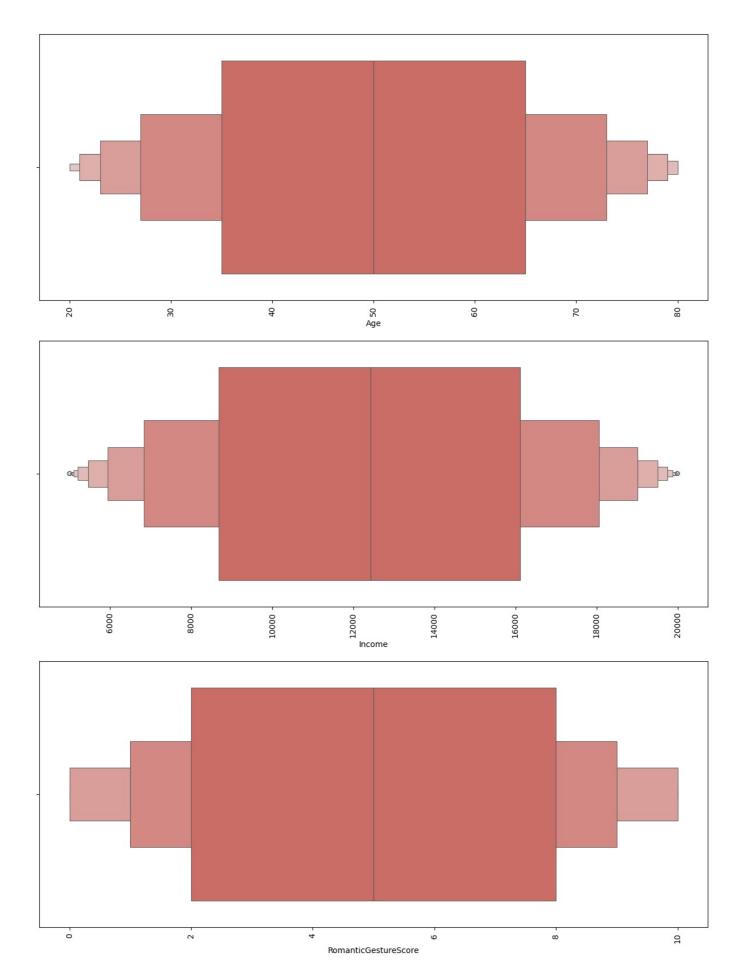


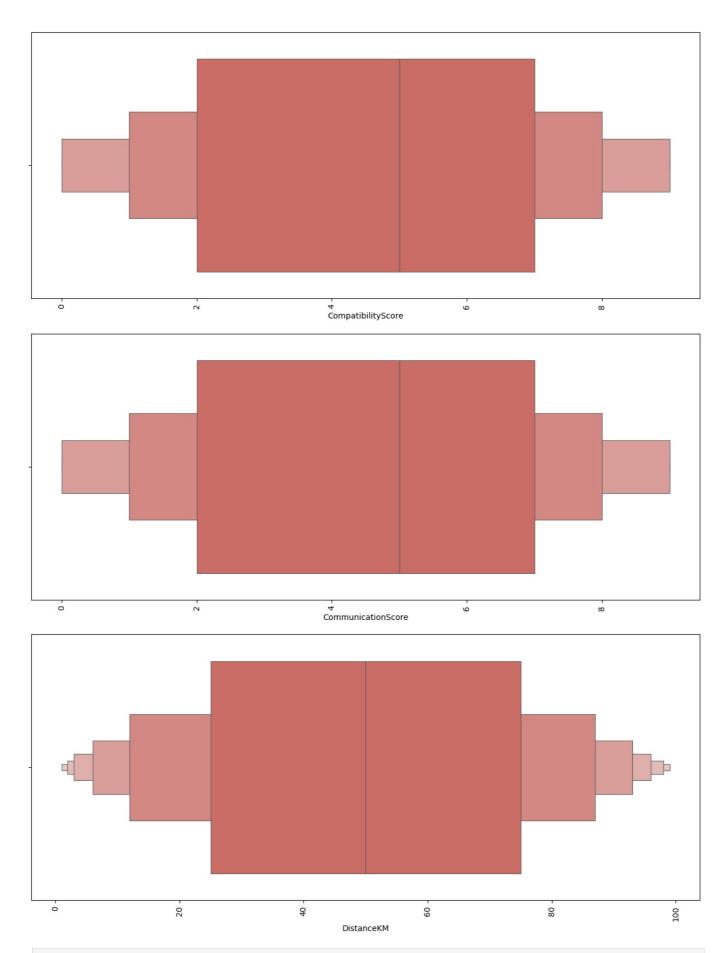




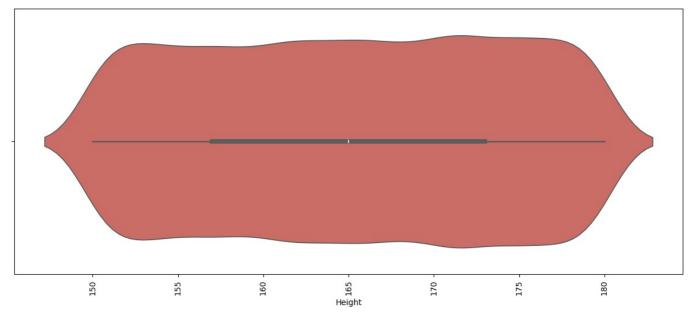


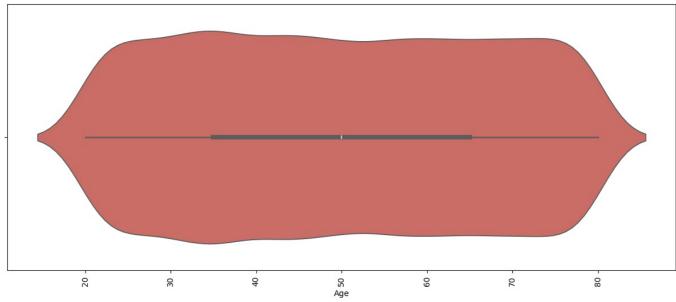


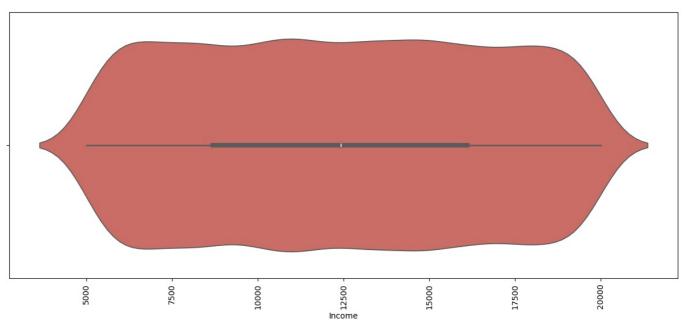


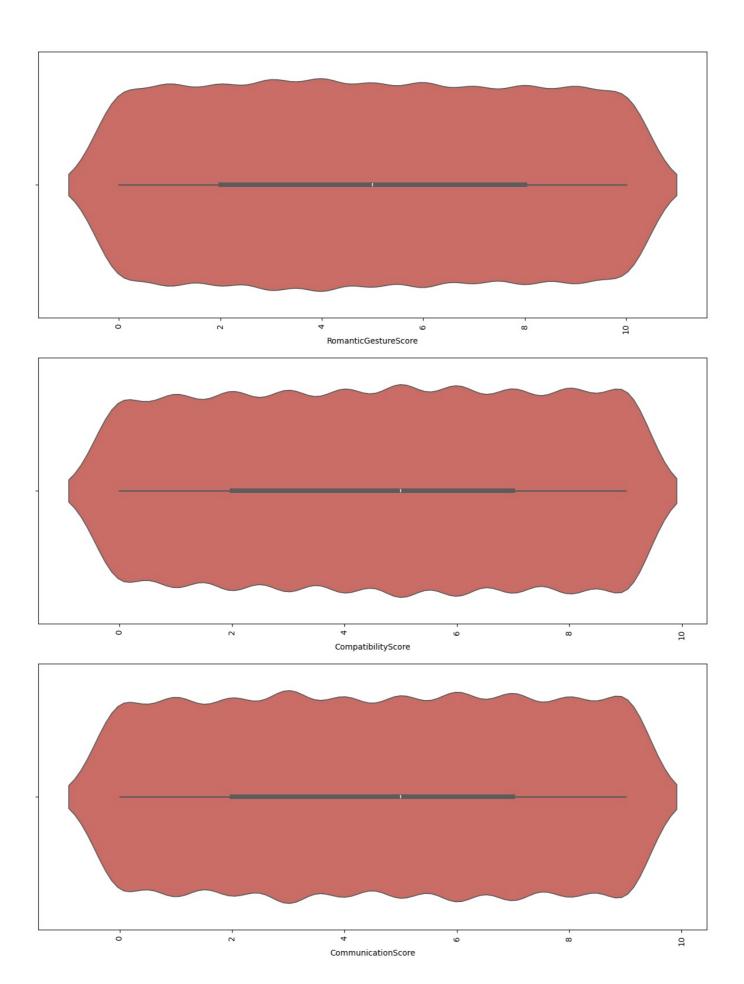


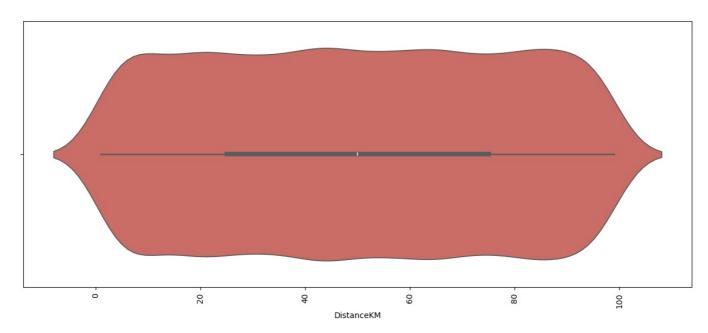
plt.figure(figsize=(15, 6))
sns.violinplot(x=i, data=df, palette='hls')
plt.xticks(rotation=90)
plt.show()



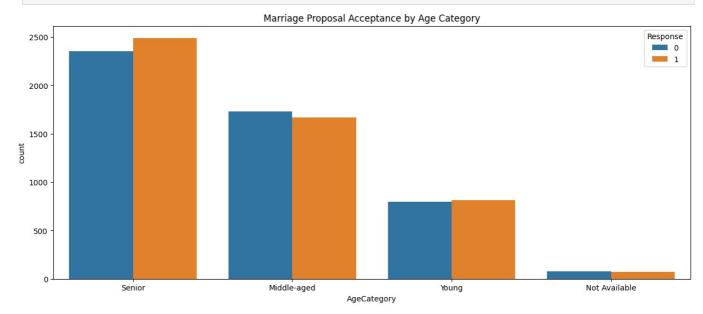




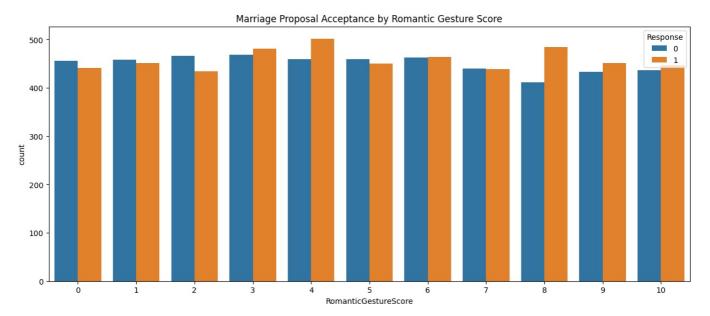




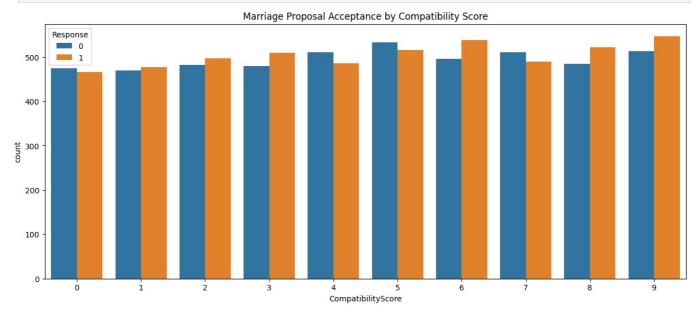
```
In [39]: plt.figure(figsize=(15, 6))
    sns.countplot(x='AgeCategory', hue='Response', data=df)
    plt.title('Marriage Proposal Acceptance by Age Category')
    plt.show()
```



```
In [40]: plt.figure(figsize=(15, 6))
    sns.countplot(x = 'RomanticGestureScore', hue='Response', data=df)
    plt.title('Marriage Proposal Acceptance by Romantic Gesture Score')
    plt.show()
```



```
In [41]:
    plt.figure(figsize=(15, 6))
    sns.countplot(x = 'CompatibilityScore', hue='Response', data=df)
    plt.title('Marriage Proposal Acceptance by Compatibility Score')
    plt.show()
```

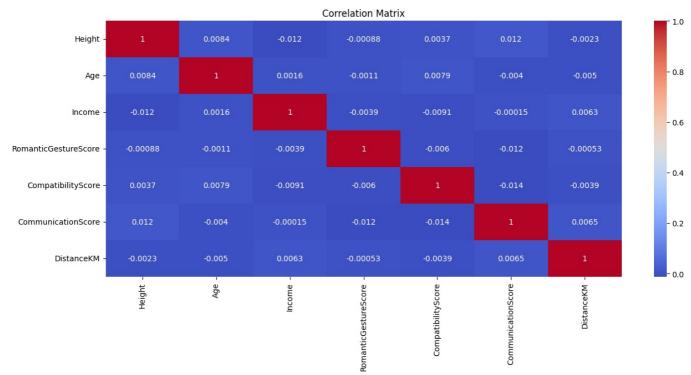


 Not Available
 19656
 19906

 Senior
 19985
 19991

 Young
 19990
 19963

```
In [46]: pivot table = pd.pivot table(df, values='Income', index='AgeCategory', columns='Response', aggfunc='min')
In [47]: pivot table
Out[47]:
            Response
                          0
                                1
          AgeCategory
           Middle-aged 5012
                             5018
          Not Available
                       5068
                             5098
                Senior
                       5000
                             5008
                       5019
                             5004
                Young
         cross_tab = pd.crosstab(df['AgeCategory'], df['Response'])
In [48]:
In [49]:
          cross tab
Out[49]:
            Response
                          0
                                1
          AgeCategory
           Middle-aged
                       1728
                             1671
          Not Available
                         79
                               74
                Senior
                       2352
                             2491
                Young
                        794
                              811
         pivot_table = pd.pivot table(df,
                                         values=['RomanticGestureScore', 'CompatibilityScore'],
                                         index='AgeCategory',
                                         columns='Response'
                                         aggfunc= 'mean',
                                         margins=True,
                                         fill value=0)
In [51]:
         pivot table
                                 CompatibilityScore
                                                         RomanticGestureScore
            Response
                              0
                                       1
                                               All
                                                                           AII
          AgeCategory
           Middle-aged 4.552662 4.675643 4.613122 4.968171 5.081388 5.023831
          Not Available 4.126582 4.891892 4.496732 4.670886 4.810811 4.738562
                      4.575255
                                4.606985
                                         4.591575
                                                  4.861395
                                                            4.999599
                                                                     4.932480
                Young
                      4.614610
                                4.464858
                                         4.538941 4.994962
                                                            4.926017 4.960125
                   All 4 566525 4 611056
                                         4 589000 4 917020 5 012086 4 965000
          cross_tab = pd.crosstab(df['AgeCategory'], [df['Response'], df['RomanticGestureScore'], df['CompatibilityScore']
                                    normalize='index', margins=True)
In [53]:
          cross_tab
                                                                                                                          0
                     Response
          RomanticGestureScore
                                                                                                                          0
              CompatibilityScore
                                      0
                                                                  3
                                                                                     5
                                                                                                       7
                                                                                                                          9
                   AgeCategory
                   Middle-aged 0.002059 0.004413 0.005296
                                                           0.002942 0.004119
                                                                             0.004413 0.005296
                                                                                                0.004413  0.003825  0.004707
                                                                                                                                0.0
                  Not Available 0.013072 0.006536
                                                 0.000000
                                                           0.000000
                                                                     0.013072 0.006536
                                                                                      0.000000
                                                                                                0.006536 0.000000
                                                                                                                   0.000000
                                                                                                                                0.0
                        Senior
                               0.005988
                                         0.003510
                                                  0.004336
                                                           0.007020
                                                                     0.004749
                                                                              0.004543
                                                                                       0.004336
                                                                                                0.005162
                                                                                                          0.004956
                                                                                                                   0.005369
                                                                                                                                0.0
                        Young 0.003738
                                         0.003115
                                                 0.002492
                                                           0.003115
                                                                     0.006231
                                                                              0.003738
                                                                                       0.003738
                                                                                                 0.005607
                                                                                                          0.006231
                                                                                                                   0.003115
                            AII 0.004400 0.003800 0.004300 0.004900
                                                                     0.004900 0.004400 0.004500
                                                                                                0.005000 0.004700 0.004700 ...
         5 rows × 220 columns
In [541:
         plt.figure(figsize=(15, 6))
          correlation matrix = df[['Height', 'Age', 'Income', 'RomanticGestureScore', 'CompatibilityScore', 'Communication'
          sns.heatmap(correlation_matrix, annot=True, cmap='coolwarm')
```



```
In [55]: df['AgeCategory'] = df['AgeCategory'].astype('category')

df_new = pd.get_dummies(df, columns=['AgeCategory'], drop_first=True)
```

In [56]: df_new = df_new.astype(int)

In [57]: df_new

Out[57]: AgeCategory Height Age Income RomanticGestureScore CompatibilityScore CommunicationScore DistanceKM Response Avai

10000 rows × 11 columns

```
In [58]: from sklearn.model_selection import train_test_split
    from sklearn.linear_model import LogisticRegression
    from sklearn.ensemble import RandomForestClassifier
    from sklearn.svm import SVC
    from sklearn.metrics import accuracy_score
```

```
In [59]: X = df_new.drop('Response', axis=1)
y = df_new['Response']
```

```
In [60]: X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.2, stratify = y, random_state=42)
```

```
In [61]: log_reg_model = LogisticRegression()
log_reg_model.fit(X_train, y_train)
log_reg_pred = log_reg_model.predict(X_test)
log_reg_accuracy = accuracy_score(y_test, log_reg_pred)
print("Logistic Regression Accuracy:", log_reg_accuracy)
```

```
Logistic Regression Accuracy: 0.488
In [62]: rf model = RandomForestClassifier()
         rf_model.fit(X_train, y_train)
         rf pred = rf model.predict(X test)
         rf_accuracy = accuracy_score(y_test, rf_pred)
         print("Random Forest Accuracy:", rf accuracy)
        Random Forest Accuracy: 0.5245
In [63]: svm_model = SVC()
         svm model.fit(X train, y train)
         svm_pred = svm_model.predict(X_test)
         svm_accuracy = accuracy_score(y_test, svm_pred)
         print("SVM Accuracy:", svm_accuracy)
        SVM Accuracy: 0.4825
In [64]: from sklearn.preprocessing import StandardScaler
In [65]: non discrete features = ['Height', 'Age', 'Income', 'RomanticGestureScore', 'CompatibilityScore', 'Communication'
In [66]: scaler = StandardScaler()
         df_new[non_discrete_features] = scaler.fit_transform(df_new[non_discrete_features])
In [67]: X = df new.drop('Response', axis=1)
         y = df_new['Response']
In [68]: X train, X test, y train, y test = train test split(X, y, test size=0.2, stratify = y, random state=42)
In [69]: svm_model = SVC()
         svm model.fit(X train, y train)
         svm_pred = svm_model.predict(X_test)
         svm_accuracy = accuracy_score(y_test, svm_pred)
         print("SVM Accuracy:", svm_accuracy)
        SVM Accuracy: 0.486
In [70]: from sklearn.tree import DecisionTreeClassifier
In [71]: dt classifier = DecisionTreeClassifier(random state=42)
In [72]: dt classifier.fit(X train, y train)
Out[72]: v
                   DecisionTreeClassifier
         DecisionTreeClassifier(random state=42)
In [73]: dt pred = dt classifier.predict(X test)
         dt accuracy = accuracy score(y test, dt pred)
         print("Decision Tree Accuracy:", dt_accuracy)
        Decision Tree Accuracy: 0.514
In [74]: from sklearn.preprocessing import PolynomialFeatures
In [75]: degree = 2
         selected_features = ['Height', 'Age', 'Income', 'RomanticGestureScore',
                               'CompatibilityScore', 'CommunicationScore', 'DistanceKM']
In [76]: X_selected = df[selected_features]
In [77]: poly = PolynomialFeatures(degree=degree, include_bias=False)
In [78]: poly_features = poly.fit_transform(X_selected)
In [79]: poly feature names = poly.get feature names out(input features=selected features)
         df_poly = pd.DataFrame(poly_features, columns=poly_feature_names)
         df_poly = pd.concat([df[['Response']], df_poly], axis=1)
```

In [80]: df poly

```
n
                                                  156.0 59.0
                                                                        7977.0
                                                                                                                     3.0
                                                                                                                                                      1.0
                                                                                                                                                                                           1.0
                                                                                                                                                                                                               45.0
                                                                                                                                                                                                                          24336.0
                        1
                                                  169.0 32.0
                                                                         5842.0
                                                                                                                     0.0
                                                                                                                                                      1.0
                                                                                                                                                                                           5.0
                                                                                                                                                                                                               46.0
                                                                                                                                                                                                                           28561.0
                        2
                                                  178.0 42.0
                                                                     17638.0
                                                                                                                     2.0
                                                                                                                                                                                           5.0
                                                                                                                                                                                                               13.0
                                                                                                                                                                                                                           31684.0
                        3
                                                  164.0 78.0
                                                                        8793.0
                                                                                                                     0.0
                                                                                                                                                      0.0
                                                                                                                                                                                           7.0
                                                                                                                                                                                                               52.0
                                                                                                                                                                                                                           26896.0 12
                                                  160.0 35.0 15262.0
                                                                                                                     6.0
                                                                                                                                                      0.0
                                                                                                                                                                                           0.0
                                                                                                                                                                                                                           25600.0
                        4
                                           1
                                                                                                                                                                                                                9.0
                                                                                                                                                                                           5.0
                                                                                                                                                                                                                           26244.0 12
                   9995
                                           1
                                                  162.0 76.0 12311.0
                                                                                                                     4.0
                                                                                                                                                                                                               75.0
                  9996
                                                  162.0
                                                            75.0
                                                                         6459.0
                                                                                                                     7.0
                                                                                                                                                      9.0
                                                                                                                                                                                           0.0
                                                                                                                                                                                                               52.0
                                                                                                                                                                                                                           26244.0
                  9997
                                                                                                                     9.0
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                                                                                                                                                                                                               33.0
                                                                                                                                                                                                                           27556.0 1
                                                  166.0 70.0
                                                                         9231.0
                                                                                                                                                                                           6.0
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                  9998
                                                  176.0 78.0
                                                                       12656.0
                                                                                                                     8.0
                                                                                                                                                      9.0
                                                                                                                                                                                           5.0
                                                                                                                                                                                                               25.0
                                                                                                                                                                                                                           24336.0 10
                   9999
                                                  156.0 68.0
                                                                                                                     0.0
                                                                                                                                                                                           4.0
                  10000 rows × 36 columns
In [81]: df_poly.columns
'Height Age', 'Height Income', 'Height RomanticGestureScore',
                                 'Height CompatibilityScore', 'Height CommunicationScore',
                                 'Height DistanceKM', 'Age^2', 'Age Income', 'Age RomanticGestureScore',
                                 'Age CompatibilityScore', 'Age CommunicationScore', 'Age DistanceKM',
                                 'Income^2', 'Income RomanticGestureScore', 'Income CompatibilityScore',
                                 'Income CommunicationScore', 'Income DistanceKM',
                                 'RomanticGestureScore^2', 'RomanticGestureScore CompatibilityScore',
                                 'RomanticGestureScore CommunicationScore',
                                 'RomanticGestureScore DistanceKM', 'CompatibilityScore^2',
                                 'CompatibilityScore CommunicationScore',
                                 \verb|'CompatibilityScore DistanceKM', |'CommunicationScore^2', |'CommunicationScore^2'|, |'CommunicationScore^2'|, |'CompatibilityScore DistanceKM', |'CommunicationScore^2'|, |'CommunicationScore^2|, |'CommunicationScore^2|, |'CommunicationScore^2|, |'CommunicationScore*|, |'CommunicationScor
                                  'CommunicationScore DistanceKM', 'DistanceKM^2'],
                               dtype='object')
In [82]: from sklearn.feature selection import SelectFromModel
In [83]: X = df_poly.drop(columns=['Response'])
                  y = df_poly['Response']
In [84]: clf = RandomForestClassifier(n_estimators=100, random_state=42)
In [85]:
                  selector = SelectFromModel(clf)
                  selector.fit(X, y)
                                          SelectFromModel
Out[85]:
                    ▶ estimator: RandomForestClassifier
                               ▶ RandomForestClassifier
In [86]: selected_feature_indices = selector.get_support(indices=True)
In [87]: selected_features = X.columns[selected_feature_indices]
In [88]: X_selected = X[selected_features]
                   X\_train, \ X\_test, \ y\_train, \ y\_test = train\_test\_split(X\_selected, \ y, \ test\_size=0.2, \ random \ state=42) 
In [89]: X selected = X[selected features]
                   X\_train, \ X\_test, \ y\_train, \ y\_test = train\_test\_split(X\_selected, \ y, \ test\_size=0.2, \ random\_state=42) 
                  model = LogisticRegression()
                  model.fit(X_train, y_train)
Out[89]: v LogisticRegression
                  LogisticRegression()
In [90]: y_pred = model.predict(X_test)
                  accuracy = accuracy_score(y_test, y_pred)
```

Income RomanticGestureScore CompatibilityScore CommunicationScore DistanceKM Height^2

Out[80]:

Response Height Age

print("Accuracy:", accuracy)

Accuracy: 0.4965

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