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Feature education values: {'Assoc-voc', 'HS-grad', 'Bachelors', '12th', '10th', 'Masters', '7th-8th', 'Some-college', '1st-4th', 'Preschool', '11th', 'Assoc-acdm', 'Doctorate', '9th', '5th-6th', 'Prof-s chool'} Feature education.num values: {1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16} Feature marital.status values: {'Married-spouse-absent', 'Divorced', 'Separated', 'Widowed', 'Married -AF-spouse', 'Never-married', 'Married-civ-spouse'} Feature occupation values: {'Machine-op-inspct', 'Handlers-cleaners', 'Craft-repair', 'Priv-house-ser v', 'Farming-fishing', '?', 'Sales', 'Exec-managerial', 'Tech-support', 'Armed-Forces', 'Protective-s erv', 'Adm-clerical', 'Prof-specialty', 'Other-service', 'Transport-moving'} Feature relationship values: {'Husband', 'Own-child', 'Not-in-family', 'Unmarried', 'Wife', 'Other-re lative'} Feature race values: {'Asian-Pac-Islander', 'Black', 'Other', 'Amer-Indian-Eskimo', 'White'} Feature sex values: {'Female', 'Male'} Feature capital.gain values: {0, 2050, 4101, 7688, 14344, 2062, 2580, 22040, 3103, 1055, 25124, 2597, 4650, 18481, 2105, 5178, 1086, 3137, 6723, 2635, 4687, 594, 20051, 1111, 5721, 3674, 2653, 1639, 676 7, 114, 2174, 1151, 2176, 7298, 25236, 1173, 2202, 99999, 9386, 15020, 15024, 4787, 27828, 2228, 684 9, 3781, 3273, 7896, 6360, 3818, 13550, 2290, 3325, 4865, 14084, 1797, 7430, 2829, 6418, 7443, 10520, 2329, 4386, 1831, 2346, 7978, 34095, 3887, 2354, 1848, 4416, 4931, 3908, 2885, 10566, 4934, 5455, 34 11, 2387, 9562, 2907, 3418, 41310, 6497, 3942, 2407, 3432, 10605, 2414, 6514, 2936, 3456, 1409, 3464, 3471, 1424, 2961, 401, 914, 2964, 5013, 4508, 11678, 2463, 2977, 8614, 1455, 2993, 5556, 1471, 5060, 6097, 15831, 2009, 991, 4064, 1506, 2538, 2036} Feature capital.loss values: {0, 2051, 1539, 2057, 1564, 2080, 1573, 1579, 2603, 1590, 1594, 1602, 10 92, 1617, 2129, 1628, 3683, 2149, 1648, 625, 1138, 1651, 2163, 2174, 2179, 1668, 1669, 1672, 653, 220 1, 155, 2205, 2206, 1719, 2231, 1721, 3770, 2238, 1726, 2754, 2246, 1735, 1740, 1741, 2258, 213, 226 7, 1755, 1762, 1258, 2282, 4356, 2824, 1816, 1825, 2339, 810, 2352, 1844, 1848, 3900, 1340, 323, 237 7, 1876, 2392, 1887, 1380, 1902, 2415, 880, 1408, 1411, 2444, 1944, 2457, 419, 2467, 2472, 1974, 197 7, 2489, 1980, 3004, 1485, 974, 2001, 2002, 1504, 2547, 2042, 2559} Feature hours.per.week values: {1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 2 0, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 4 5, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 70, 7 2, 73, 74, 75, 76, 77, 78, 80, 81, 82, 84, 85, 86, 87, 88, 89, 90, 91, 92, 94, 95, 96, 97, 98, 99} Feature native.country values: {'Scotland', 'Japan', 'Hungary', 'Dominican-Republic', 'Ireland', 'Nic aragua', 'Taiwan', 'Puerto-Rico', 'Laos', 'India', 'England', 'United-States', 'Yugoslavia', 'Hong', 'Thailand', 'Peru', 'Cambodia', 'South', 'Guatemala', 'France', 'Ecuador', 'Canada', 'Italy', 'Germa ny', 'Honduras', 'Philippines', 'Greece', 'Iran', 'Outlying-US(Guam-USVI-etc)', 'Mexico', 'Jamaica', 'China', 'Cuba', 'Trinadad&Tobago', '?', 'Holand-Netherlands', 'Portugal', 'Columbia', 'Poland', 'Vi etnam', 'El-Salvador', 'Haiti'} Feature income values: {'>50K', '<=50K'}</pre> In [61]: # I have to deal with "?" strings in categorical variables and possible missing data df train = df train.replace('?', np.nan) df\_test = df\_test.replace('?', np.nan) rows nan = [] for index, row in df train.isnull().iterrows(): if (row.values).any(): rows\_nan.append(index) len(rows\_nan) #number of rows that have any missing data Out[61]: 2399 In [62]: print('Rows that have any missing value: ',str((len(rows\_nan)/df\_train.shape[0])\*100) + '%') Rows that have any missing value: 7.367936117936118% In [63]: #Owing to the small % of rows having missing data, I'll get rid of them df\_train = df\_train.dropna(axis = 0) display(df\_train) #df\_test = df\_test.dropna(axis = 0) sex capital.gain capital.los age workclass fnlwgt education education.num marital.status occupation relationship race ld Some-Exec-0 16280 34 Private 204991 10 Own-child White Divorced Male college managerial Married-civ-Transport-0 16281 58 Local-gov 310085 10th Husband White Male spouse moving Some-Machine-**16282** 25 Private 146117 10 Never-married Not-in-family White Male college op-inspct Some-Adm-Not-in-family White Female 16283 24 Private 138938 10 Divorced college clerical Transport-Self-emp-Married-civ-Husband White 5178 16284 57 258883 HS-grad 9 Male moving inc spouse ••• ... Married-civ-Prof-384236 48835 42 Private Masters 14 Husband White Male 7688 spouse specialty Machine-48836 23 Private 129042 HS-grad Never-married Unmarried Black Female 0 op-inspct Priv-house-Never-married Own-child 48837 30 Private 195488 HS-grad White Female 0 serv Adm-White Female 48838 18 Private 27620 HS-grad Never-married Not-in-family 0 clerical Prof-Not-in-family White 48839 47 Local-gov 203067 **Bachelors** 13 Divorced Male specialty 30161 rows × 15 columns In [64]: df\_train.columns Out[64]: Index(['age', 'workclass', 'fnlwgt', 'education', 'education.num', 'marital.status', 'occupation', 'relationship', 'race', 'sex', 'capital.gain', 'capital.loss', 'hours.per.week', 'native.country', 'income'], dtype='object') In [65]: #I will delete education columns once I already have 'education.num' df train.drop(labels = 'education', axis = 1, inplace = True) df\_test.drop(labels = 'education', axis = 1, inplace = True) 2- Exploratory Data Analysis (EDA) and Data Preparation 2.1 - Correlation Matrix Our target is the income, it's a categorical variable with two label • I'm changing the target in order to have two quantiative value: 0 to <=50 and >50 to 1. Then, I'll able to measure the correlations among the variables In [66]: df\_train\_corr = df\_train.copy() df\_train\_corr['income'] = df\_train\_corr['income'].apply(lambda x: 0 if x == '<=50K' else 1 )</pre> set(df train corr['income']) Out[66]: {0, 1} In [67]: sea.heatmap(round(df\_train\_corr.corr(),2), annot = True,cmap = 'viridis',vmin = -1, vmax = 1) plt.title("Correlation (Spearman) Matrix", fontweight = 'bold', fontsize = 12) #Setting plt.gcf().set size inches(8,8) plt.gcf().set dpi(100) plt.subplots adjust(bottom = .25) plt.xticks(size = 12)plt.yticks(size = 12) Out[67]: (array([0.5, 1.5, 2.5, 3.5, 4.5, 5.5, 6.5]), <a list of 7 Text yticklabel objects>) Correlation (Spearman) Matrix 0.8 -0.081 -0.040 -0.01-0.02-0.01fnlwgt 0.4 0.04 -0.041 0.12 0.08 0.15 0.34 education.num 0.08 0 0.12 1 -0.030.08 0.22 capital.gain 0.0 0.06 -0.010.08 -0.030.05 0.15 1 capital.loss -0.40.15 0.08 0.05 0.23 0.1 -0.021 hours.per.week -0.8income capital.gain capital.loss income education.num hours.per.week • Comparing the target with other features, we can see the pearson correlation between income and fnlwgtg is close to 0. So we can considerer take this feature out df train.drop(labels = 'fnlwgt', axis =1, inplace = True) In [68]: df test.drop(labels = 'fnlwgt', axis =1, inplace = True) In [69]: df train.head() Out[69]: capital.gain capital.loss hours.per.week workclass education.num marital.status occupation relationship race ld Exec-16280 34 10 Own-child White 0 0 44 Private Divorced Male managerial Married-civ-Transport-6 0 0 40 16281 58 Local-gov Husband White Male moving spouse Machine-Not-in-family White 0 0 16282 25 Private 10 Never-married Male 42 op-inspct Adm-24 10 0 0 40 16283 Private Divorced Not-in-family White Female clerical Married-civ-Self-emp-Transport-16284 57 9 Husband White 0 60 Male 5178 spouse moving 2.2 - Analyzing quantitative features In [70]: display(df train.head()) quant features = ['age', 'education.num', 'capital.gain', 'capital.loss', 'hours.per.week'] age workclass education.num marital.status occupation relationship sex capital.gain capital.loss hours.per.week ld Exec-16280 34 Private 10 Divorced Own-child White Male 44 managerial Married-civ-Transport-0 16281 58 Local-gov 6 Husband White Male 40 spouse moving Machine-Never-married 16282 25 Private Not-in-family White 0 42 Male op-inspct Adm-16283 24 Private 10 Divorced Not-in-family White 0 0 40 Female clerical Married-civ-Self-emp-Transport-16284 57 9 Husband White 5178 0 60 Male moving spouse sea.set(rc = {'axes.facecolor':'black'} ) In [71]: fig, ((ax1,ax2),(ax3,ax4),(ax5,ax6)) = plt.subplots(3,2)axes = [ax1,ax2,ax3,ax4,ax5,ax6]for feature, ax in zip(quant\_features, axes): #Plotting sea.boxplot(data = df\_train, x = 'income', y = feature, palette = "GnBu\_r", orient = "v", linewidth = 1, saturation= 0.56, ax= ax) #sea.swarmplot(data = df train, x = 'income', y = feature, palette = 'GnBu r', orient = 'v', size = 7, alpha= 1, edgecolor= 'grey', ax = ax) ax.set\_xlabel('income', fontsize = 15) ax.set\_ylabel(feature, fontsize = 15) ax.set\_title("Box-plot: Income X {}".format(feature) ,size = 15, fontweight = 'bold') #Setting plt.gcf().set\_size\_inches(17,12) plt.gcf().set\_dpi(130)  $plt.subplots_adjust(bottom = -0.8)$ plt.xticks(fontsize = 12) plt.yticks(fontsize = 12) Out[71]: (array([0., 0.2, 0.4, 0.6, 0.8, 1.]), <a list of 6 Text yticklabel objects>) Box-plot: Income X education.num Box-plot: Income X age 90 16 14 80 12 70 education.num 10 60 50 40 30 20 <=50K >50K <=50K >50K income income Box-plot: Income X capital.gain Box-plot: Income X capital.loss 100000 4000 80000 3000 capital.loss 60000 capital.gain 40000 1000 20000 <=50K >50K <=50K >50K income income Box-plot: Income X hours.per.week 1.0 100 0.8 80 0.6 hours.per.week 60 0.4 20 0.0 <=50K >50K 0.0 0.2 0.4 0.6 1.0 income We can realize there are many outliers from the boxplots that need to be handled I'm using Robust Scaler method to deal with outliers In [72]: df train[['capital.gain', 'capital.loss', 'hours.per.week']] = RobustScaler().fit transform(df train[[ 'capital.gain', 'capital.loss', 'hours.per.week']]) df test[['capital.gain', 'capital.loss', 'hours.per.week']] = RobustScaler().fit transform(df test[['ca pital.gain', 'capital.loss', 'hours.per.week']]) 2.3 - Analyzing qualitative features In [73]: display(df train.head()) qual features = ['workclass', 'marital.status', 'occupation', 'relationship', 'race', 'sex', 'native.co untry'] sex capital.gain capital.loss hours.per.week workclass education.num marital.status occupation relationship ld Exec-16280 34 Private 10 Divorced Own-child White Male 0.0 0.0 8.0 managerial Married-civ-Transport-0.0 spouse moving Machine-16282 25 Private Never-married Not-in-family White 0.0 0.0 0.4 Male op-inspct Adm-Divorced 16283 24 Private 10 Not-in-family White Female 0.0 0.0 0.0 clerical Married-civ-Self-emp-Transport-9 16284 57 Husband White Male 5178.0 0.0 4.0 spouse moving In [74]: sea.set(rc = {'axes.facecolor':'black'} ) fig, ((ax1,ax2),(ax3,ax4),(ax5,ax6),(ax7,ax8)) = plt.subplots(4,2)axes = [ax1,ax2,ax3,ax4,ax5,ax6,ax7,ax8]for feature, ax in zip(qual features, axes): #Plotting df train[feature].value counts().plot.barh( color = 'royalblue', ax = ax) ax.set xlabel('Number of People', fontsize = 15) ax.set ylabel(feature, fontsize = 15) ax.set\_title("Bar Chat: {}".format(feature) , size = 15, fontweight = 'bold') #Setting plt.gcf().set\_size\_inches(17,12) plt.gcf().set dpi(130) plt.subplots adjust (bottom = -0.8) plt.xticks(fontsize = 13) plt.yticks(fontsize = 13)Out[74]: (array([0., 0.2, 0.4, 0.6, 0.8, 1.]), <a list of 6 Text yticklabel objects>) Bar Chat: workclass Bar Chat: marital.status ried-AF-spouse Without-pay Federal-gov Self-emp-inc Widowed State-gov Separated Local-gov Divorced Self-emp-not-inc Never-married Private ed-civ-spouse 5000 10000 15000 20000 2000 4000 6000 12000 14000 Number of People Number of People **Bar Chat: occupation** Bar Chat: relationship Armed-Forces Priv-house-serv Protective-serv Tech-support Wife Farming-fishing Handlers-cleaners
Transport-moving
Machine-op-inspct
Other-service Unmarried Own-child Other-service Not-in-family Adm-clerical Exec-managerial Craft-repair Prof-specialty 0 500 2500 2000 6000 1000 2000 3500 4000 0 4000 8000 10000 12000 Number of People Number of People Bar Chat: race Bar Chat: sex Other Female sex Asian-Pac-Islander White 15000 25000 10000 20000 2500 5000 12500 15000 17500 20000 Number of People Number of People Bar Chat: native.country 1.0 0.8 0.6 0.4 0.2 0.0 5000 15000 20000 25000 0.0 0.2 0.4 0.6 0.8 1.0 Number of People · The fact that catch my attention the most is the too way greater number of records from the US In [75]: df\_train.groupby(by = 'native.country').agg({'native.country': lambda x: str(round(np.count\_nonzero(x)/ len(df train) \* 100,2)) + ' %'}) Out[75]: native.country native.country Cambodia 0.06 % Canada 0.35 % China 0.23 % Columbia 0.19 % Cuba 0.31 % **Dominican-Republic** 0.22 % 0.09 % **Ecuador** El-Salvador 0.33 % **England** 0.29 % France 0.09 % 0.42 % Germany Greece 0.1 % Guatemala 0.21 % Haiti 0.14 % **Holand-Netherlands** 0.0 % 0.04 % **Honduras** 0.06 % Hong Hungary 0.04 % India 0.33 % Iran 0.14 % 0.08 % Italy 0.23 % Jamaica 0.27 % Japan 0.2 % 0.06 % Laos **Mexico** 2.02 % Nicaragua 0.11 % Outlying-US(Guam-USVI-etc) 0.05 % 0.1 % Peru **Philippines** 0.62 % **Poland** 0.19 % **Portugal** 0.11 % Puerto-Rico 0.36 % **Scotland** 0.04 % 0.24 % South Taiwan 0.14 % **Thailand** 0.06 % Trinadad&Tobago 0.06 % **United-States** 91.19 % Vietnam 0.21 % 0.05 % Yugoslavia • We can notice that ony the United-States accounts for more than 91% of the dataset records. We can conclude that the dataset is totally unballanced Very well. I'll handle it placing 1 to people from the US and 0 to non people from the US In [76]: df train['USA'] = df train['native.country'].apply(lambda x: 1 if x == 'United-States' else 0 ) df\_test['USA'] = df\_test['native.country'].apply(lambda x: 1 if x == 'United-States' else 0 ) Now I have to convert the labels to numerical values in order to apply the KNN classifier In [78]: df test Out[78]: sex capital.gain capital.loss hours.per.week workclass education.num marital.status occupation relationship age race Machine-25 Private Never-married Own-child Black Male 0.0 0.0 op-inspct Farming-Married-civ-Husband 2 38 Private 9.0 White Male 0.0 0.0 2.0 spouse fishing Married-civ-Protective-Husband 28 Local-gov 12.0 White Male 0.0 0.0 spouse Married-civ-Machine-Husband 44 Private 10.0 Black Male 7688.0 0.0 0.0 spouse op-inspct 5 18 NaN 10.0 Never-married NaN Own-child White **Female** 0.0 0.0 -2.0 Prof-Female 16277 39 Private 13.0 Divorced Not-in-family White 0.0 0.0 8.0specialty Other-16278 64 NaN 9.0 Widowed NaN Male 0.0 0.0 0.0 Black relative Married-civ-Prof-16279 38 Private 13.0 Husband White Male 0.0 0.0 2.0 spouse specialty Asian-Adm-Own-child 16280 13.0 0.0 clerical Islander Self-emp-Married-civ-Exec-**16281** 35 13.0 White 0.0 0.0 4.0 Husband Male managerial spouse 16281 rows × 14 columns In [81]: df\_test['workclass'] Out[81]: 1 Private 2 Private 3 Local-gov 4 Private 16277 Private 16278 NaN 16279 Private Private 16280 16281 Self-emp-inc Name: workclass, Length: 16281, dtype: object In [83]: | #training dataset for feature in qual\_features: df\_train[feature] = LabelEncoder().fit\_transform(df\_train[feature]) #Test dataset for feature in qual\_features: print(feature) df test[feature] = LabelEncoder().fit transform(df test[feature].astype(str)) workclass marital.status occupation relationship race sex native.country 3- Using KNN (K-Nearest Nighbor) Cassifier to Predict 3.1- Feature Selection df train.columns In [84]: Out[84]: Index(['age', 'workclass', 'education.num', 'marital.status', 'occupation', 'relationship', 'race', 'sex', 'capital.gain', 'capital.loss', 'hours.per.week', 'native.country', 'income', 'USA'], dtype='object') In [85]: feature\_select = ['age', 'workclass', 'education.num', 'marital.status', 'occupation', relationship', 'race', 'sex', 'capital.gain', 'capital.loss', 'hours.per.week', 'USA'] target = 'income' x train = df train[feature select] y\_train = df\_train[target] x test = df test[feature select] y\_test = df\_test[target] 3.2 Applyig the Classifier to the training dataset In [86]: #I'm using cross validation method with 10 folders to select K that presents more accuracy KN = np.arange(10, 45, 5)for K in KN: score = cross\_val\_score(KNeighborsClassifier(n\_neighbors = K), x\_train, y\_train, cv = 10, scoring = 'accuracy').mean() print(f'K-Neighbor: {K} | Accuracy: {score}') K-Neighbor: 10 | Accuracy: 0.85103284531966 K-Neighbor: 15 | Accuracy: 0.8510327683393977 K-Neighbor: 20 | Accuracy: 0.8507676592987716 K-Neighbor: 25 | Accuracy: 0.8499058320670976 K-Neighbor: 30 | Accuracy: 0.8503368666227574 K-Neighbor: 35 | Accuracy: 0.8483142101443745 K-Neighbor: 40 | Accuracy: 0.8473857512304079 I pick up the K that presents the best accuracy 3.3- Applying the Classifier to the testing dataset In [87]: K = 10knn = KNeighborsClassifier(n neighbors = K) knn.fit(x\_test,y\_test) y predict= knn.predict(x test) #classification in practice In [88]: y\_predict Out[88]: array(['<=50K.', '>50K.', '>50K.', '>50K.', '<=50K.', '>50K.'], dtype=object) In [89]: #Classification accuracy accuracy\_score(y\_test, y\_predict) Out[89]: 0.8766046311651619 3.4 Saving Results In [90]: df test Out[90]: age workclass education.num marital.status occupation relationship race sex capital.gain capital.loss hours.per.week nativ 25 7.0 4 11 2 0.0 0.0 0.0 1 9.0 2 9 0.0 2.0 38 3 0 4 0.0 2 1 28 12.0 2 2 0.0 0.0 0.0 3 2 0 7688.0 0.0 4 44 10.0 11 2 1 0.0 18 10.0 4 6 3 0 0.0 0.0 -2.0 16277 39 13.0 0 14 0.0 0.0 -0.8 16278 8 9.0 6 6 2 0.0 0.0 0.0 64 2 1 16279 38 13.0 0.0 2.0 16280 44 3 13.0 0 0 3 5455.0 0.0 0.0 1 1 16281 35 13.0 0.0 0.0 4.0 16281 rows × 14 columns