

```
In [3]: pip install graphviz

Requirement already satisfied: graphviz in c:\users\91998\anaconda3\lib\site-packages (0.19.1)
Note: you may need to restart the kernel to use updated packages.
```

## Import Necessary Libraries

```
In [58]: import pandas as pd
import seaborn as sns
from matplotlib import pyplot as plt
from sklearn.model_selection import train_test_split
from sklearn.ensemble import RandomForestClassifier as RF
from sklearn.metrics import accuracy_score
from sklearn.metrics import confusion_matrix
from io import StringIO

import pydotplus
from sklearn.tree import export_graphviz
import matplotlib.image as mpimg
```

## Data collection

```
In [59]: df = pd.read_csv('Fraud_check (1).csv')

In [60]: fraud=df.copy()

In [61]: fraud.head()

Out [61]:
   Undergrad  Marital.Status  Taxable.Income  City.Population  Work.Experience  Urban
0          NO             Single           68833             50047              10     YES
1          YES           Divorced           33700             134075             18     YES
2          NO             Married           36925             160205             30     YES
3          YES             Single           50190             193264              15     YES
4          NO             Married            81002              27533              28     NO

In [62]: fraud.describe().T

Out [62]:
          count      mean      std      min      25%      50%      75%      max
Taxable.Income  600.0  55208.375000  26204.827597  10003.0  32871.50  55074.5  78611.75  99619.0
City.Population  600.0  108747.368333  49850.075134  25779.0  66966.75  106493.5  150114.25  199778.0
Work.Experience  600.0  15.558333      8.842147      0.0      8.00     15.0     24.00     30.0

In [63]: fraud.isnull().sum()

Out [63]:
Undergrad      0
Marital.Status  0
Taxable.Income  0
City.Population  0
Work.Experience  0
Urban          0
dtype: int64

In [64]: fraud.dtypes

Out [64]:
Undergrad      object
Marital.Status  object
Taxable.Income  int64
City.Population  int64
Work.Experience  int64
Urban           object
dtype: object

In [65]: import warnings
warnings.filterwarnings('ignore')
```

## Outlier Check

```
In [66]: ax = sns.boxplot(fraud['Taxable.Income'])

In [67]: plt.rcParams["figure.figsize"] = 9,5

In [68]: plt.figure(figsize=(16,5))
print("Skew: {}".format(fraud['Taxable.Income'].skew()))
print("Kurtosis: {}".format(fraud['Taxable.Income'].kurtosis()))
ax = sns.kdeplot(fraud['Taxable.Income'],shade=True,color='g')
plt.xticks([i for i in range(10000,100000,10000)])
plt.show()

Skew: 0.038014788906377175
Kurtosis: -1.1997824607083138

In [69]: obj_colum = fraud.select_dtypes(include='object').columns.tolist()

In [70]: plt.figure(figsize=(16,10))
for i,col in enumerate(obj_colum,1):
    plt.subplot(2,2,i)
    sns.countplot(data=fraud,y=col)
    plt.subplot(2,2,i+1)
    fraud[col].value_counts(normalize=True).plot.bar()
    plt.ylabel(col)
    plt.xlabel('% distribution per category')
plt.tight_layout()
plt.show()
```



```
In [71]: num_columns = fraud.select_dtypes(exclude='object').columns.tolist()

In [72]: plt.figure(figsize=(18,40))
for i,col in enumerate(num_columns,1):
    plt.subplot(8,4,i)
    sns.kdeplot(df[col],color='g',shade=True)
    plt.subplot(8,4,i+10)
    df[col].plot.box()
plt.tight_layout()
plt.show()

num_data = df[num_columns]
pd.DataFrame(data=[num_data.skew(),num_data.kurtosis()],index=['skewness','kurtosis'])

In [73]: In [74]: In [75]: In [76]: In [77]: In [78]: In [79]: In [80]: In [81]: In [82]: In [83]: In [84]: In [85]: In [86]: In [87]: In [88]: In [89]: In [90]: In [91]: In [92]: In [93]: In [94]: In [95]: In [96]: In [97]: In [98]: In [99]: In [100]: In [101]: In [102]: In [103]: In [104]: In [105]: In [106]: In [107]: In [108]: In [109]: In [110]: In [111]: In [112]: In [113]: In [114]: In [115]: In [116]: In [117]: In [118]: In [119]: In [120]: In [121]: In [122]: In [123]: In [124]: In [125]: In [126]: In [127]: In [128]: In [129]: In [130]: In [131]: In [132]: In [133]: In [134]: In [135]: In [136]: In [137]: In [138]: In [139]: In [140]: In [141]: In [142]: In [143]: In [144]: In [145]: In [146]: In [147]: In [148]: In [149]: In [150]: In [151]: In [152]: In [153]: In [154]: In [155]: In [156]: In [157]: In [158]: In [159]: In [160]: In [161]: In [162]: In [163]: In [164]: In [165]: In [166]: In [167]: In [168]: In [169]: In [170]: In [171]: In [172]: In [173]: In [174]: In [175]: In [176]: In [177]: In [178]: In [179]: In [180]: In [181]: In [182]: In [183]: In [184]: In [185]: In [186]: In [187]: In [188]: In [189]: In [190]: In [191]: In [192]: In [193]: In [194]: In [195]: In [196]: In [197]: In [198]: In [199]: In [200]: In [201]: In [202]: In [203]: In [204]: In [205]: In [206]: In [207]: In [208]: In [209]: In [210]: In [211]: In [212]: In [213]: In [214]: In [215]: In [216]: In [217]: In [218]: In [219]: In [220]: In [221]: In [222]: In [223]: In [224]: In [225]: In [226]: In [227]: In [228]: In [229]: In [230]: In [231]: In [232]: In [233]: In [234]: In [235]: In [236]: In [237]: In [238]: In [239]: In [240]: In [241]: In [242]: In [243]: In [244]: In [245]: In [246]: In [247]: In [248]: In [249]: In [250]: In [251]: In [252]: In [253]: In [254]: In [255]: In [256]: In [257]: In [258]: In [259]: In [260]: In [261]: In [262]: In [263]: In [264]: In [265]: In [266]: In [267]: In [268]: In [269]: In [270]: In [271]: In [272]: In [273]: In [274]: In [275]: In [276]: In [277]: In [278]: In [279]: In [280]: In [281]: In [282]: In [283]: In [284]: In [285]: In [286]: In [287]: In [288]: In [289]: In [290]: In [291]: In [292]: In [293]: In [294]: In [295]: In [296]: In [297]: In [298]: In [299]: In [300]: In [301]: In [302]: In [303]: In [304]: In [305]: In [306]: In [307]: In [308]: In [309]: In [310]: In [311]: In [312]: In [313]: In [314]: In [315]: In [316]: In [317]: In [318]: In [319]: In [320]: In [321]: In [322]: In [323]: In [324]: In [325]: In [326]: In [327]: In [328]: In [329]: In [330]: In [331]: In [332]: In [333]: In [334]: In [335]: In [336]: In [337]: In [338]: In [339]: In [340]: In [341]: In [342]: In [343]: In [344]: In [345]: In [346]: In [347]: In [348]: In [349]: In [350]: In [351]: In [352]: In [353]: In [354]: In [355]: In [356]: In [357]: In [358]: In [359]: In [360]: In [361]: In [362]: In [363]: In [364]: In [365]: In [366]: In [367]: In [368]: In [369]: In [370]: In [371]: In [372]: In [373]: In [374]: In [375]: In [376]: In [377]: In [378]: In [379]: In [380]: In [381]: In [382]: In [383]: In [384]: In [385]: In [386]: In [387]: In [388]: In [389]: In [390]: In [391]: In [392]: In [393]: In [394]: In [395]: In [396]: In [397]: In [398]: In [399]: In [400]: In [401]: In [402]: In [403]: In [404]: In [405]: In [406]: In [407]: In [408]: In [409]: In [410]: In [411]: In [412]: In [413]: In [414]: In [415]: In [416]: In [417]: In [418]: In [419]: In [420]: In [421]: In [422]: In [423]: In [424]: In [425]: In [426]: In [427]: In [428]: In [429]: In [430]: In [431]: In [432]: In [433]: In [434]: In [435]: In [436]: In [437]: In [438]: In [439]: In [440]: In [441]: In [442]: In [443]: In [444]: In [445]: In [446]: In [447]: In [448]: In [449]: In [450]: In [451]: In [452]: In [453]: In [454]: In [455]: In [456]: In [457]: In [458]: In [459]: In [460]: In [461]: In [462]: In [463]: In [464]: In [465]: In [466]: In [467]: In [468]: In [469]: In [470]: In [471]: In [472]: In [473]: In [474]: In [475]: In [476]: In [477]: In [478]: In [479]: In [480]: In [481]: In [482]: In [483]: In [484]: In [485]: In [486]: In [487]: In [488]: In [489]: In [490]: In [491]: In [492]: In [493]: In [494]: In [495]: In [496]: In [497]: In [498]: In [499]: In [500]: In [501]: In [502]: In [503]: In [504]: In [505]: In [506]: In [507]: In [508]: In [509]: In [510]: In [511]: In [512]: In [513]: In [514]: In [515]: In [516]: In [517]: In [518]: In [519]: In [520]: In [521]: In [522]: In [523]: In [524]: In [525]: In [526]: In [527]: In [528]: In [529]: In [530]: In [531]: In [532]: In [533]: In [534]: In [535]: In [536]: In [537]: In [538]: In [539]: In [540]: In [541]: In [542]: In [543]: In [544]: In [545]: In [546]: In [547]: In [548]: In [549]: In [550]: In [551]: In [552]: In [553]: In [554]: In [555]: In [556]: In [557]: In [558]: In [559]: In [560]: In [561]: In [562]: In [563]: In [564]: In [565]: In [566]: In [567]: In [568]: In [569]: In [570]: In [571]: In [572]: In [573]: In [574]: In [575]: In [576]: In [577]: In [578]: In [579]: In [580]: In [581]: In [582]: In [583]: In [584]: In [585]: In [586]: In [587]: In [588]: In [589]: In [590]: In [591]: In [592]: In [593]: In [594]: In [595]: In [596]: In [597]: In [598]: In [599]: In [600]: In [601]: In [602]: In [603]: In [604]: In [605]: In [606]: In [607]: In [608]: In [609]: In [610]: In [611]: In [612]: In [613]: In [614]: In [615]: In [616]: In [617]: In [618]: In [619]: In [620]: In [621]: In [622]: In [623]: In [624]: In [625]: In [626]: In [627]: In [628]: In [629]: In [630]: In [631]: In [632]: In [633]: In [634]: In [635]: In [636]: In [637]: In [638]: In [639]: In [640]: In [641]: In [642]: In [643]: In [644]: In [645]: In [646]: In [647]: In [648]: In [649]: In [650]: In [651]: In [652]: In [653]: In [654]: In [655]: In [656]: In [657]: In [658]: In [659]: In [660]: In [661]: In [662]: In [663]: In [664]: In [665]: In [666]: In [667]: In [668]: In [669]: In [670]: In [671]: In [672]: In [673]: In [674]: In [675]: In [676]: In [677]: In [678]: In [679]: In [680]: In [681]: In [682]: In [683]: In [684]: In [685]: In [686]: In [687]: In [688]: In [689]: In [690]: In [691]: In [692]: In [693]: In [694]: In [695]: In [696]: In [697]: In [698]: In [699]: In [700]: In [701]: In [702]: In [703]: In [704]: In [705]: In [706]: In [707]: In [708]: In [709]: In [710]: In [711]: In [712]: In [713]: In [714]: In [715]: In [716]: In [717]: In [718]: In [719]: In [720]: In [721]: In [722]: In [723]: In [724]: In [725]: In [726]: In [727]: In [728]: In [729]: In [730]: In [731]: In [732]: In [733]: In [734]: In [735]: In [736]: In [737]: In [738]: In [739]: In [740]: In [741]: In [742]: In [743]: In [744]: In [745]: In [746]: In [747]: In [748]: In [749]: In [750]: In [751]: In [752]: In [753]: In [754]: In [755]: In [756]: In [757]: In [758]: In [759]: In [760]: In [761]: In [762]: In [763]: In [764]: In [765]: In [766]: In [767]: In [768]: In [769]: In [770]: In [771]: In [772]: In [773]: In [774]: In 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[1250]: In [1251]: In [1252]: In [1253]: In [1254]: In [1255]: In [1256]: In [1257]: In [1258]: In [1259]: In [1260]: In [1261]: In [1262]: In [1263]: In [1264]: In [1265]: In [1266]: In [1267]: In [1268]: In [1269]: In [1270]: In [1271]: In [1272]: In [1273]: In [1274]: In [1275]: In [1276]: In [1277]: In [1278]: In [1279]: In [1280]: In [1281]: In [1282]: In [1283]: In [1284]: In [1285]: In [1286]: In [1287]: In [1288]: In [1289]: In [1290]: In [1291]: In [1292]: In [1293]: In [1294]: In [1295]: In [1296]: In [1297]: In [1298]: In [1299]: In [1300]: In [1301]: In [1302]: In [1303]: In [1304]: In [1305]: In [1306]: In [1307]: In [1308]: In [1309]: In [1310]: In [1311]: In [1312]: In [1313]: In [1314]: In [1315]: In [1316]: In [1317]: In [1318]: In [1319]: In [1320]: In [1321]: In [1322]: In [1323]: In [1324]: In [1325]: In [1326]: In [1327]: In [1328]: In [1329]: In [1330]: In [1331]: In [1332]: In [1333]: In [1334]: In [1335]: In [1336]: In [1337]: In [1338]: In [1339]: In [1340]: In 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