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EDA

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python > Assignment > Problem 2 > sweetwiz\_demo.py > ...

```
1 import os
2 import pandas as pd
3 import sweetviz as sv
4
5 # --- Configuration ---
6 # Change this to the actual full path of your CSV file
7 csv_path = r"d:\College\5th sem\Professional Electives\EDA\python\Assignment\Problem 2\DA314_S8_EmployeeAttrition_D.ipynb"
8
9 # --- Check if file exists ---
10 if not os.path.exists(csv_path):
11     print(f"X File not found: {csv_path}")
12     print("👉 Please check the path and try again.")
13 else:
14     # --- Read CSV safely ---
15     try:
16         df = pd.read_csv(
17             csv_path,
18             encoding="latin1",
19             engine="python",
20             on_bad_lines="skip",
21         )
22
23     # --- Generate Sweetviz report ---
24     report = sv.analyze(df)
25     output_path = "SWEETVIZ_REPORT.html"
26     report.show_html(output_path)
27
28     print(f"✓ Sweetviz report saved as: {os.path.abspath(output_path)}")
29
30 except Exception as e:
31     print("⚠ Error reading or analyzing the CSV:")
32     print(e)
```

11 November 2025  
Tue 22:17 (Local time)

27°C Mostly cloudy

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22:17 11-11-2025

**SweetViz** 2.3.1

Get updates, docs & report issues here  
Created & maintained by Francois Bertrand  
Graphic design by Jean-Francois Haine

### DataFrame

NO COMPARISON TARGET

	ROWS	DUPLICATES	RAM
1676	0	0	1.1 MB
95%	31	21	FEATURES
Q3	21	10	CATEGORICAL
MEDIAN	1465k	0	NUMERICAL
Avg	1457k		TEXT
Q1	1236k		
5%	1072k		
MIN	1025k		

**Associations**

**EmployeeID**

VALUES: 1,676 (100%)  
MISSING: --  
DISTINCT: 1,676 (100%)  
ZEROES: --

	MAX	RANGE	IQR	STD	VAR
MAX	1886k	861k	432k	249k	61.9B
95%	1846k				
Q3	1668k				
MEDIAN	1465k				
Avg	1457k				
Q1	1236k				
5%	1072k				
MIN	1025k				

**Age**

VALUES: 1,676 (100%)  
MISSING: --  
DISTINCT: 43 (3%)  
ZEROES: --

	MAX	RANGE	IQR	STD	VAR
MAX	60.0	42.0	13.0	9.13	83.3
95%	54.0				
Q3	43.0				
MEDIAN	36.0				
Avg	36.9				
Q1	30.0				
5%	24.0				
MIN	18.0				

**Attrition**

VALUES: 1,676 (100%)  
MISSING: --  
DISTINCT: 2 (<1%)

**BusinessTravel**

VALUES: 1,676 (100%)  
MISSING: --  
DISTINCT: 3 (<1%)

**Department**

VALUES: 1,676 (100%)  
MISSING: --

**EmployeeID**

MISSING: --

**Most Frequent Values**

1313919	1	<0.1%
1604086	1	<0.1%
1788553	1	<0.1%
1638427	1	<0.1%
1828789	1	<0.1%
1041532	1	<0.1%
1261502	1	<0.1%
1321308	1	<0.1%
1689960	1	<0.1%
1755222	1	<0.1%
1573518	1	<0.1%
1765716	1	<0.1%
1597323	1	<0.1%
1729981	1	<0.1%
1679356	1	<0.1%

**Smallest Values**

1025177	1	<0.1%
1026798	1	<0.1%
1026975	1	<0.1%
1028391	1	<0.1%
1028630	1	<0.1%
1028734	1	<0.1%
1030882	1	<0.1%
1030937	1	<0.1%
1031059	1	<0.1%
1031434	1	<0.1%
1031524	1	<0.1%
1031664	1	<0.1%
1031688	1	<0.1%
1031735	1	<0.1%
1032001	1	<0.1%

**Largest Values**

1886378	1	<0.1%
1886039	1	<0.1%
1885928	1	<0.1%
1884939	1	<0.1%
1884938	1	<0.1%
1884554	1	<0.1%
1883822	1	<0.1%
1883424	1	<0.1%
1882668	1	<0.1%
1881631	1	<0.1%
1880660	1	<0.1%
1880248	1	<0.1%
1880078	1	<0.1%
1879823	1	<0.1%
1879624	1	<0.1%

**Numerical Associations**  
(PEARSON, -1 to 1)

Age	-0.04
YearsSinceLastPromotion	0.03
DistanceFromHome	-0.03
TotalWorkingYears	-0.03
MonthlyIncome	-0.03
YearsAtCompany	-0.02
YearsInCurrentRole	-0.01
YearsWithCurrManager	-0.01
PercentSalaryHike	0.01

**Categorical Associations**  
(CORRELATION RATIO, 0 to 1)

EducationField	0.07
JobInvolvement	0.07
TrainingTimesLastYear	0.06
AgeGroup	0.05
WorkLifeBalance	0.04
JobRole	0.04
NumCompaniesWorkedPrev...	0.04
Education	0.04
JobLevel	0.04
JobSatisfaction	0.03
OverTime	0.03
OverTime_encoded	0.03
Department	0.02
MaritalStatus	0.02