Big Dataset 1

(diabetes _ binary _ health _ indicators _ BRFSS2015.csv/ Big Dataset_1.csv) https://www.kaggle.com/datasets/alexteboul/diabetes-health-indicators-dataset

diabetes _ binary _ health _ indicators _ BRFSS2015.csv is a clean dataset of 253,680 survey responses to the CDC's BRFSS2015. The target variable Diabetes_binary has 2 classes. 0 is for no diabetes, and 1 is for prediabetes or diabetes. This dataset has 21 feature variables and is not balanced.

Big Dataset 2 (diabetes _ binary _ 5050split _ health _ indicators _ BRFSS2015.csv/ Big Dataset 2.csv)

https://www.kaggle.com/datasets/alexteboul/diabetes-health-indicators-dataset

diabetes _ binary _ 5050split _ health _ indicators _ BRFSS2015.csv is a clean dataset of 70,692 survey responses to the CDC's BRFSS2015. It has an equal 50-50 split of respondents with no diabetes and with either prediabetes or diabetes. The target variable Diabetes_binary has 2 classes. 0 is for no diabetes, and 1 is for prediabetes or diabetes. This dataset has 21 feature variables and is balanced.

Original Source:

https://www.kaggle.com/code/alexteboul/diabetes-health-indicators-dataset-notebook/output

Data description of the original source:

https://www.cdc.gov/brfss/annual_data/2015/pdf/codebook15_llcp.pdf

Variables:

Response Variable / Dependent Variable:

- 1) **Diabetes_binary** (binary categorical)
 - Question: (Ever told) you have diabetes

Responses:

- 0: No (no diabetes)
- 1: Yes (prediabetes or borderline diabetes or diabetes)

Predictor Variables / Independent Variables:

- 2) **HighBP** (binary categorical)
 - Question: Adults who have been told they have high blood pressure by a doctor, nurse, or other health professional

Responses:

- 0: No
- 1: Yes
- 3) **HighChol** (binary categorical)
 - Question:

Have you EVER been told by a doctor, nurse or other health professional that your blood cholesterol is high?

Responses:

- 0: No
- 1: Yes
- 4) **CholCheck** (binary categorical)
 - Question: Cholesterol check within past five years

Responses:

- 0: No
- 1: Yes
- 5) **BMI** (float numerical)
 - Body Mass Index: BMI = weight (in kilograms) / [height (in metres)]²
 (Has 2 implied decimal places)
- 6) Smoker (binary categorical):
 - Question: Have you smoked at least 100 cigarettes in your entire life? [Note:
 5 packs = 100 cigarettes]

Responses:

- 0: No
- 1: Yes

7) Stroke (binary categorical):

- Question: (Ever told) you had a stroke.

Responses:

- 0: No
- 1: Yes

8) HeartDiseaseorAttack (binary categorical):

 Question: Adults who reported having coronary heart disease (CHD) or myocardial infarction (MI)

Responses:

- 0: No
- 1: Yes

9) **PhysActivity** (binary categorical):

 Question: Adults who reported doing physical activity or exercise during the past 30 days other than their regular job

Responses:

- 0: No
- 1: Yes

10) Fruits (binary categorical):

- Question: Consume Fruit 1 or more times per day

Responses:

- 0: No
- 1: Yes

11) **Veggies** (binary categorical):

- Question: Consume Vegetables 1 or more times per day

Responses:

- 0: No
- 1: Yes

12) **HvyAlcoholConsump** (binary categorical):

 Question: Heavy drinkers (adult men having more than 14 drinks per week and adult women having more than 7 drinks per week)

Responses:

- 0: No
- 1: Yes

13) **AnyHealthcare** (binary categorical):

 Question: Do you have any kind of health care coverage, including health insurance, prepaid plans such as HMOs, or government plans such as Medicare, or Indian Health Service?

Responses:

- 0: No
- 1: Yes

14) NoDocbcCost (binary categorical):

 Question: Was there a time in the past 12 months when you needed to see a doctor but could not because of cost?

Responses:

- 0: No
- 1: Yes

15) **GenHlth** (categorical):

- Question: Would you say that in general your health is: Scale 1-5

Responses:

- 1 = excellent
- 2 = very good
- -3 = good
- 4 = fair
- 5 = poor

16) **MentHlth** (int numerical):

 Question: Now thinking about your mental health, which includes stress, depression, and problems with emotions, for how many days during the past 30 days was your mental health not good?

Responses:

- Scale 1-30 days

17) **PhysHIth** (int numerical):

 Question: Now thinking about your physical health, which includes physical illness and injury, for how many days during the past 30 days was your physical health not good?

Responses:

- Scale 1-30 days

18) **DiffWalk** (binary categorical):

- Question: Do you have serious difficulty walking or climbing stairs?

Responses:

- 0 is no
- 1 is yes

19) Sex (binary categorical)

- Question: Indicate sex of respondent.

Responses:

- 0 is female
- 1 is male

20) Age (categorical): 13-level age category

- Responses:
 - 1: Age 18 to 24
 - 2: Age 25 to 29
 - 3: Age 30 to 34
 - 4: Age 35 to 39
 - 5: Age 40 to 44
 - 6: Age 45 to 49
 - 7: Age 50 to 54
 - 8: Age 55 to 59
 - 9: Age 60 to 64
 - 10: Age 65 to 69
 - 11: Age 70 to 74
 - 11. / gc / c to / 1
 - 12: Age 75 to 79
 - 13: Age 80 or older

21) **Education** (categorical):

- Questions: What is the highest grade or year of school you completed?

Responses:

- 1: Never attended school or only kindergarten
- 2: Grades 1 through 8 (Elementary)
- 3: Grades 9 through 11 (Some high school)
- 4: Grade 12 or GED (High school graduate)
- 5: College 1 year to 3 years (Some college or technical school)
- 6: College 4 years or more (College graduate)

22) **Income** (categorical):

Question: Is your annual household income from all sources:

Responses:

- 1 or 2: Less than \$15,000
- 3 or 4: \$15,000 to less than \$25,000
- 5: \$25,000 to less than \$35,000
- 6: \$35,000 to less than \$50,000
- 7 or 8: \$50,000 or more

Small Dataset (Small Dataset.csv)

https://www.kaggle.com/datasets/vikasukani/diabetes-data-set

Variables:

Response Variable / Dependent Variable:

- 1) Outcome (binary categorical): target feature
 - 0: No (no diabetes)
 - 1: Yes (prediabetes or borderline diabetes or diabetes)

Predictor Variables / Independent Variables:

- 2) Pregnancies (int numerical): Number of pregnancies.
 - Range of values: 0 to 17
- 3) Glucose (int numerical): Glucose (a simple monosaccharide) level
 - Range of values: 0 to 199
- 4) **BloodPressure** (int numerical): Blood pressure level. Blood pressure is the force of your blood pushing against the walls of your arteries
 - Range of values: 0 to 122
- 5) **SkinThickness** (int numerical): Triceps skin fold thickness in mm
 - Range of values: 0 to 110
- 6) **Insulin** (int numerical): Insulin level. Insulin is a polypeptide hormone that regulates carbohydrate metabolism.
 - Range of values: 0 to 744
- 7) **BMI** (float numerical): weight in kg / (height in m)^2
 - Range of values: 0 to 80.6
- 8) **DiabetesPedigreeFunction** (float numerical): Diabetes pedigree function (a function which scores likelihood of diabetes based on family history)
 - Range of values: 0.08 to 2.42
- 9) Age (int numerical): Patient age
 - Range of values: 21 to 81