DATASET SURVEY

Diabetes

1) Pima Indians Diabetes Database:

Source: Kaggle

Link:

https://www.kaggle.com/datasets/uciml/pima-indians-diabetes-database

Size:

This dataset is consist of 9 columns and 769 rows

Predictor variables:

Pregnancies - Number of times pregnant

Glucose - Plasma glucose concentration a 2 hours in an oral glucose tolerance test

BloodPressure - Diastolic blood pressure (mm Hg)

SkinThickness - Triceps skinfold thickness (mm)

Insulin - 2-Hour serum insulin (mu U/ml)

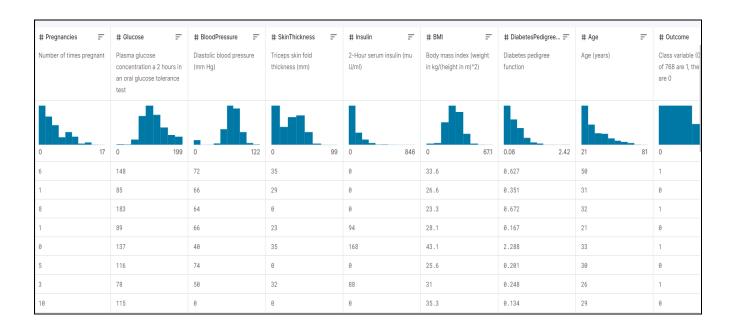
BMI - Body mass index (weight in kg/(height in m)^2)

Diabetes pedigree - Diabetes pedigree function

Age - Age (years)

Target (Dependent) variable:

Outcome - Class variable (0 or 1) 268 of 768 are 1, the others are 0



2) Diabetes Health Indicators Dataset:

Source: Kaggle

Link:

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

Size:

This dataset is consist of **21** columns and **253681** rows

Predictor variables:

HighBP - 0 = no high BP 1 = high BP

HighChol - 0 = no high cholesterol 1 = high cholesterol

CholCheck - 0 = no cholesterol check in 5 years 1 = yes cholesterol check in 5 years

BMI - Body Mass Index

Smoker - Have you smoked at least 100 cigarettes in your entire life? [Note: 5 packs = 100 cigarettes] 0 = no 1 = yes

Stroke - (Ever told) you had a stroke. 0 = no 1 = yes

HeartDiseaseorAttack - coronary heart disease (CHD) or myocardial infarction (MI) 0 = no 1 = yes

PhysActivity - physical activity in past 30 days - not including job 0 = no 1 = yes **HeavyAlcoholConsumption** - Heavy drinkers (adult men having more than 14 drinks per week and adult women having more than 7 drinks per week) 0 = no AnyHealthcare - Have any kind of health care coverage, including health insurance, prepaid plans such as HMO, etc. 0 = no 1 = yes

GenHith - Would you say that in general your health is: scale 1-5 1 = excellent 2 = very good 3 = good 4 = fair 5 = poor

MentHith - 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? scale 1-30 days

PhysHith - 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? scale 1-30 days

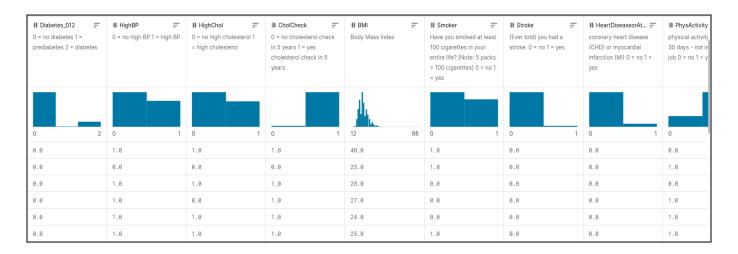
DiffWalk - Do you have serious difficulty walking or climbing stairs? 0 = no 1 = yes

Sex - 0 = female 1 = male

Age - 13-level age category (_AGEG5YR see codebook) 1 = 18-24 9 = 60-64 13 = 80 or older

Target (Dependent) variable:

Diabetes_012 - 0 = no diabetes 1 = pre diabetes 2 = diabetes



Brain Tumor

1) Brain Tumor:

Source: Kaggle

Link:

https://www.kaggle.com/datasets/jakeshbohaju/brain-tumor

Size:

This dataset is consist of 3764 image files

Predictor variables:

Image - Image name

Mean - First order feature mean

Variance - First order feature variance

Standard Deviation - First order feature std deviation

Entropy - Second order feature entropy

Skewness - First order feature skewness

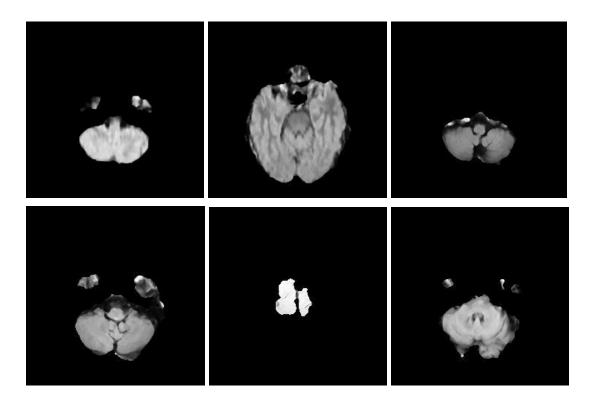
Kurtosis - First order feature kurtosis

Contrast - Second order feature contrast

Energy - Second order feature energy

Target (Dependent) variable:

Class - Target value Tumor = 1 Non tumor =0



2) Brain Tumor MRI Dataset

Source: Kaggle

Link:

https://www.kaggle.com/datasets/masoudnickparvar/brain-tumor-mri-dataset

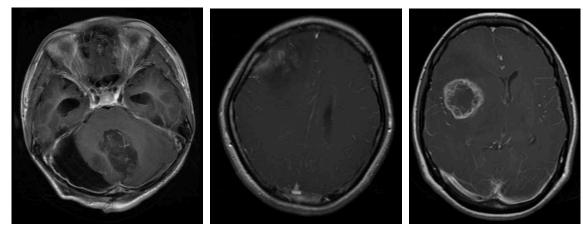
Size:

This dataset is consist of 7022 image files

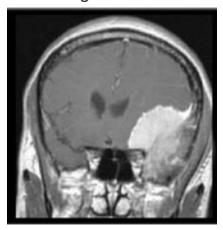
Human brain MRI images are classified into 4 classes:

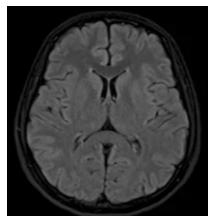
- 1) Glioma
- 2) Meningioma
- 3) No tumor
- 4) Pituitary

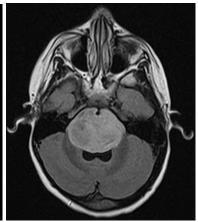
Glioma:



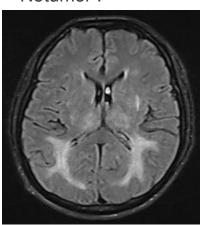
Meningioma:

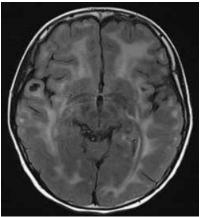


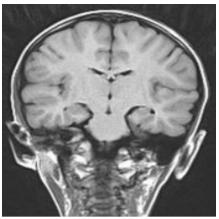




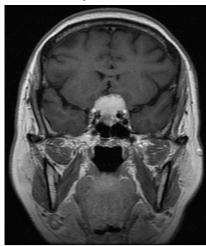
Notumor :

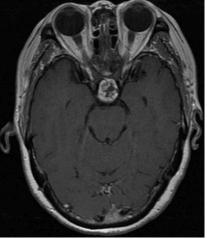


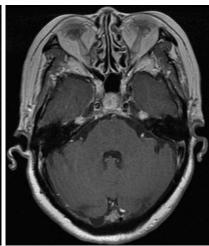




Pituitary:







Lung Cancer

1) Lung Cancer Prediction:

Source: Kaggle

Link:

https://www.kaggle.com/datasets/thedevastator/cancer-patients-and-air-pollution-a-new-link

Size:

This dataset is consist of 26 columns and 1000 rows

Predictor variables:

Patient Id - Patient Id

Age - The age of the patient. (Numeric)

Gender - The gender of the patient. (Categorical)

Air Pollution - The level of air pollution exposure of the patient. (Categorical)

Alcohol use - The level of alcohol use of the patient. (Categorical)

Dust Allergy - The level of dust allergy of the patient. (Categorical)

OccuPational Hazards - The level of occupational hazards of the patient. (Categorical)

Genetic Risk - The level of genetic risk of the patient. (Categorical)

Target (Dependent) variable:

Chronic Lung Disease - The level of chronic lung disease of the patient. (Categorical)

▲ Patient Id =	# Age	=	# Gender	=	# Air Pollution	=	# Alcohol use	# Dust Allergy =	# OccuPational Haz =	# Genetic Risk
Patient Id	The age of t	he patient.	The gender of the patient. (Categorical)		The level of air pollution exposure of the patient. (Categorical)		The level of alcohol use of	The level of dust allergy	The level of occupational	The level of ger
	(Numeric)						the patient. (Categorical)	of the patient. (Categorical)	hazards of the patient. (Categorical)	the patient. (Ca
1000 unique values		L .					البيا			
	14	73	1	2	1	8	1 8	1 8	1 8	1
P1	33		1		2		4	5	4	3
P10	17		1		3		1	5	3	4
P100	35		1		4		5	6	5	5
P1000	37		1		7		7	7	7	6
P101	46		1		6		8	7	7	7
P102	35		1		4		5	6	5	5
P103	52		2		2		4	5	4	3
P104	28		2		3		1	4	3	2
P105	35		2		4		5	6	5	6

2) Survey Lung Cancer:

Source: Kaggle

Link:

https://www.kaggle.com/code/sandragracenelson/lung-cancer-prediction/input

Size:

This dataset is consist of 16 columns and 284 rows

Predictor variables:

Gender - M(male), F(female)

Age - Patient Age

Smoking - YES=2, NO=1

Yellow_Fingers - YES=2 , NO=1

Anxiety - YES=2, NO=1

Chronic Disease - YES=2, NO=1

Fatigue - YES=2, NO=1

Allergy - YES=2, NO=1

Wheezing - YES=2, NO=1

Alcohol Consuming - YES=2, NO=1

Shortness Of Breath - YES=2, NO=1

Chest Pain - YES=2, NO=1

Target (Dependent) variable:

Lung_Cancer - YES=2, NO=1

▲ GENDER = M(male), F(female)	# AGE Patient Age	=	# SMOKING = YES=2 , NO=1.	# YELLOW_FINGERS = YES=2 , NO=1.	# ANXIETY = YES=2 , NO=1.	# CHRONIC DISEASE = YES=2 , NO=1.	# FATIGUE YES=2 , NO=1.
M 523		87	1 2	1 2	1 2	1 2	1
М	69		1	2	2	1	2
М	74		2	1	1	2	2
F	59		1	1	1	1	2
М	63		2	2	2	1	1
F	63		1	2	1	1	1
F	75		1	2	1	2	2
М	52		2	1	1	1	2
F	51		2	2	2	1	2

Alzheimer

1) Alzheimer_s Dataset:

Source: Kaggle

Link:

https://www.kaggle.com/code/amyjang/alzheimer-mri-model-tensorflow-2-3-data-loading/input

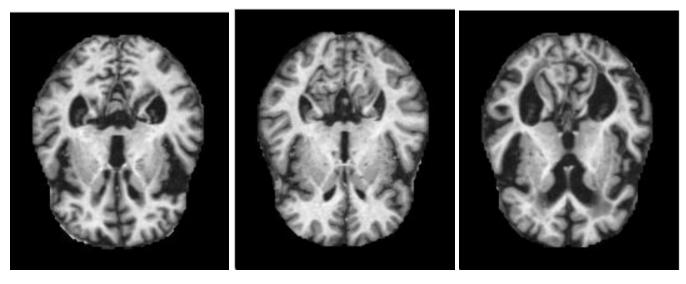
Size:

This dataset is consist of 5000 image files

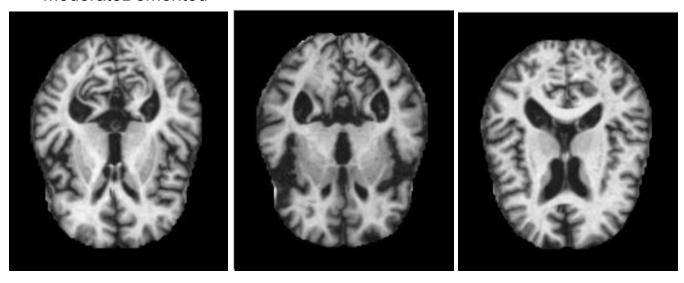
Classes:

- 1) MildDemented
- 2) VeryMildDemented
- 3) NonDemented
- 4) ModerateDemented

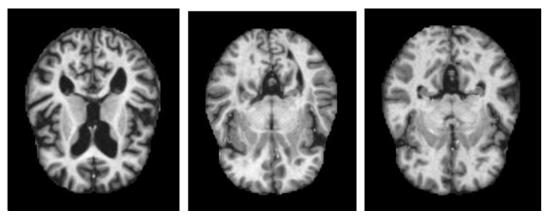
MildDemented



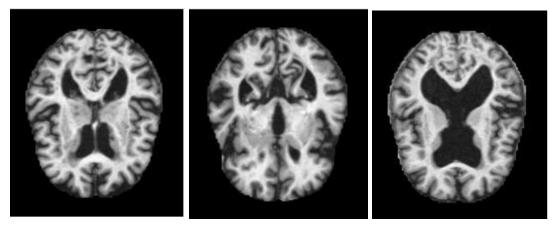
ModerateDemented



NonDemented



VeryMildDemented



2) Augmented Alzheimer MRI Dataset:

Source: Kaggle

Link:

https://www.kaggle.com/datasets/uraninjo/augmented-alzheimer-mri-dataset

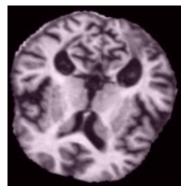
Size:

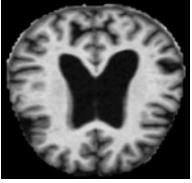
This dataset is consist of 40.4K image files

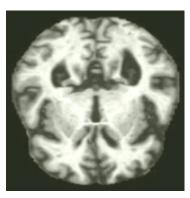
Classes:

- 1) MildDemented
- 2) VeryMildDemented
- 3) NonDemented
- 4) ModerateDemented

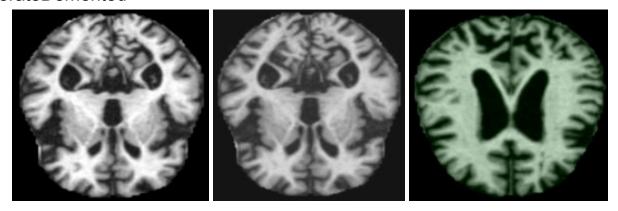
MildDemented



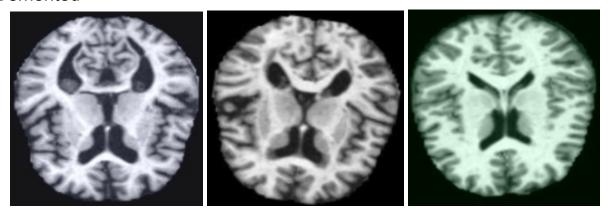




ModerateDemented



NonDemented



VeryMildDemented

