

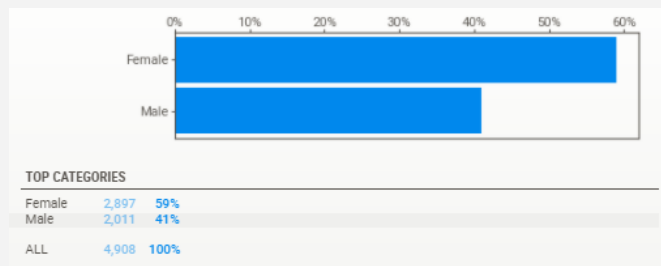
A vertical red line is positioned on the left side of the image. In the top right corner, there are several red geometric shapes, including a quarter-circle and some rectangular outlines, some of which are partially cut off by the edge of the frame.

# DASHBOARD STORYBOARD

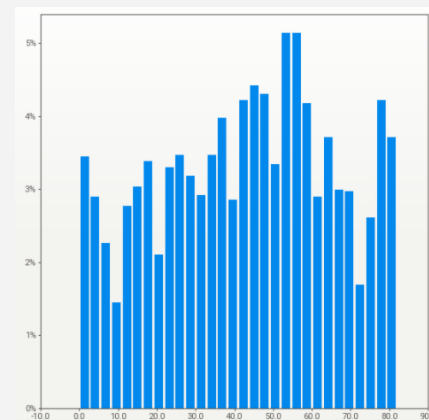
# Initial Stroke Dataset Stats



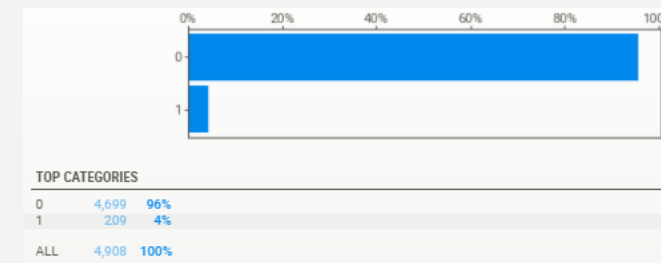
## Gender



## Age



## Stroke



## STROKE DATASET

ID#	Gender	Age	Hypertension	Heart_Dise...	Avg_Glucose_Lvl	BMI	Ever_Married	Work_Type	Residence_Type	Smoker	Stroke
int	str	int	int	int	float	float	str	str	str	str	int
1	Male	67	0	1	228.69	36.6	Yes	Private	Urban	Former	1
3	Male	80	0	1	105.92	32.5	Yes	Private	Rural	Never	1
4	Female	49	0	0	171.23	34.4	Yes	Private	Urban	Current	1
5	Female	79	1	0	174.12	24.0	Yes	Self-employed	Rural	Never	1
6	Male	81	0	0	186.21	29.0	Yes	Private	Urban	Former	1
7	Male	74	1	1	70.09	27.4	Yes	Private	Rural	Never	1
8	Female	69	0	0	94.39	22.8	No	Private	Urban	Never	1
10	Female	78	0	0	58.57	24.2	Yes	Private	Urban	Unknown	1
11	Female	81	1	0	80.43	29.7	Yes	Private	Rural	Never	1
12	Female	61	0	1	120.46	36.8	Yes	Govt_job	Rural	Current	1

Shape  
(5,109, 12)

Missing Values  
201 NaNs in "BMI" column

	All Criteria
	Medical Criteria
	Personal Criteria

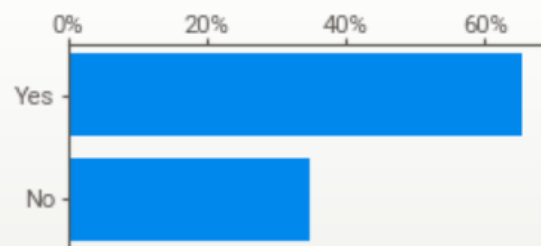
## Statistics

MAX	5,110	RANGE	5,109
95%	4,856	IQR	2,556
Q3	3,852	STD	1,471
MEDIAN	2,578	VAR	2.2M
AVG	2,574		
Q1	1,296	KURT.	-1.21
5%	286	SKEW	-0.008
MIN	1	SUM	12.6M

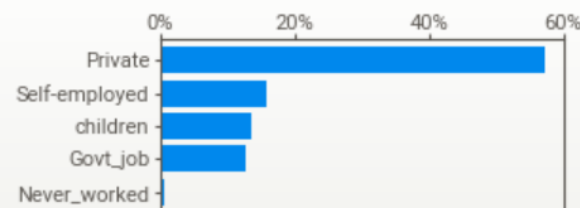
# Personal Criteria Dashboard



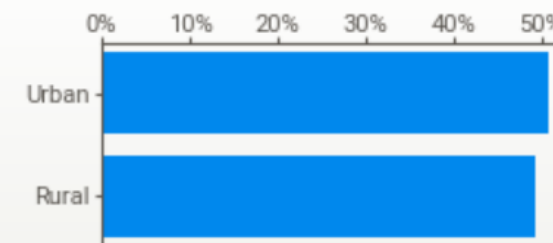
## Ever Married?



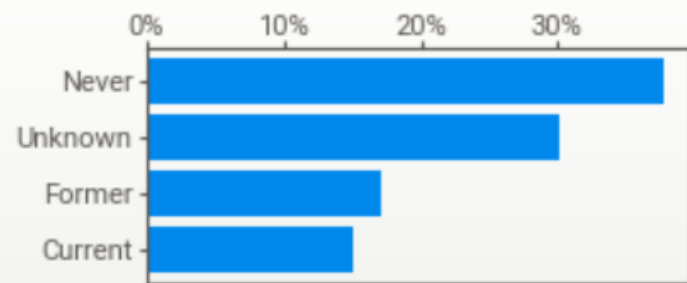
## Work Type



## Residence Type



## Smoker



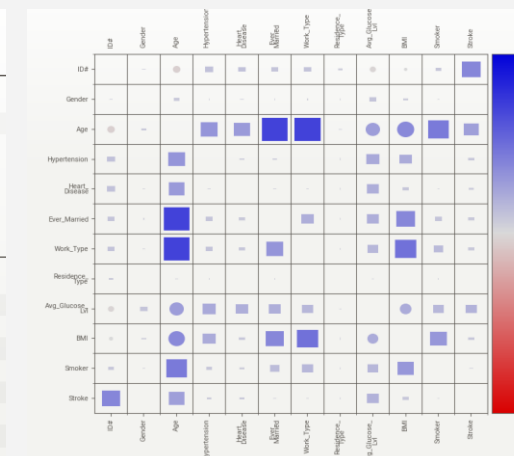
## Statistics

### NUMERICAL ASSOCIATIONS (PEARSON, -1 to 1)

Age	-0.10
Avg_Glucose_Lvl	-0.07
BMI	-0.05

### CATEGORICAL ASSOCIATIONS (CORRELATION RATIO, 0 to 1)

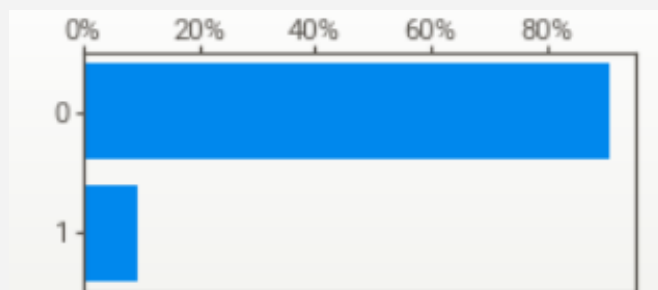
Stroke	0.35
Heart_Disease	0.07
Hypertension	0.06
Work_Type	0.06
Ever_Married	0.05
Smoker	0.04
Residence_Type	0.02
Gender	0.01



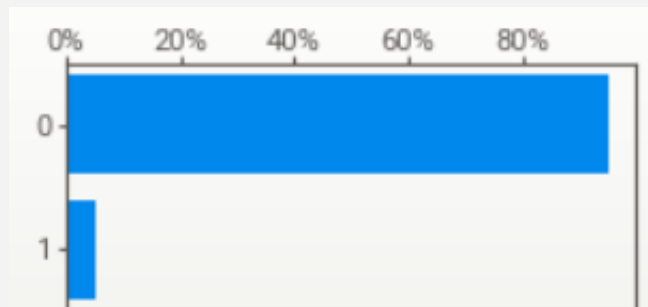
# Medical Criteria Dashboard



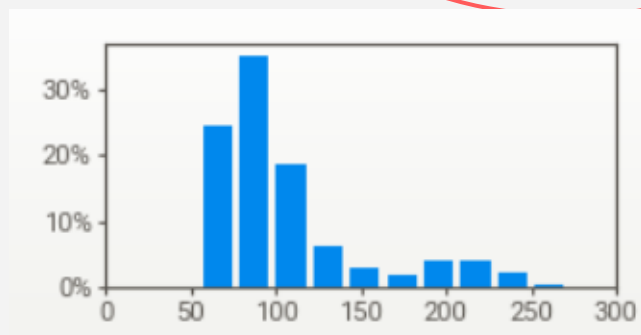
## Hypertension



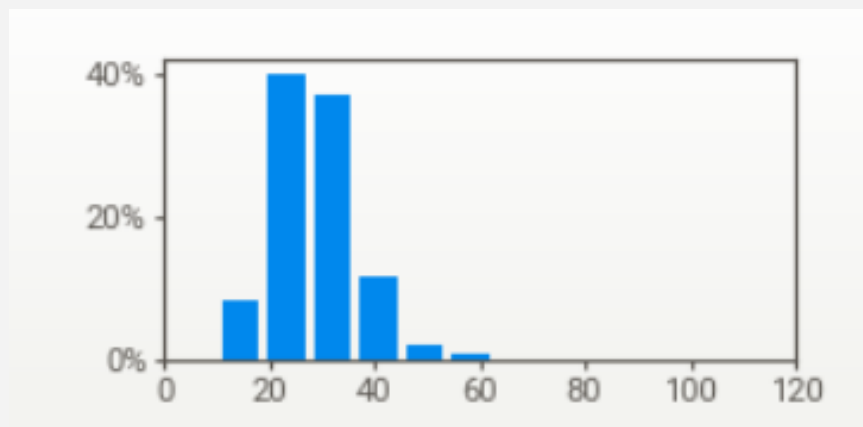
## Heart Disease



## Glucose Levels



## BMI



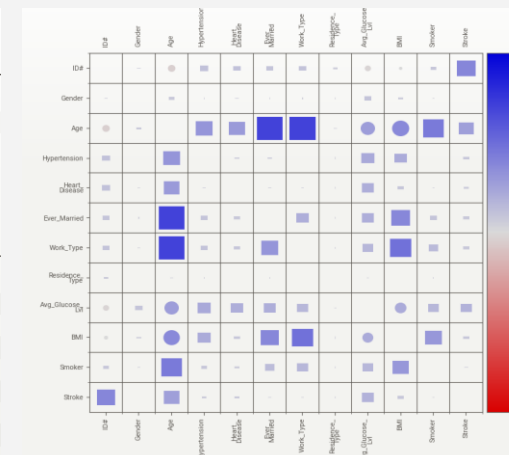
## Statistics

### NUMERICAL ASSOCIATIONS (PEARSON, -1 to 1)

Age	-0.10
Avg_Glucose_Lvl	-0.07
BMI	-0.05

### CATEGORICAL ASSOCIATIONS (CORRELATION RATIO, 0 to 1)

Stroke	0.35
Heart_Disease	0.07
Hypertension	0.06
Work_Type	0.06
Ever_Married	0.05
Smoker	0.04
Residence_Type	0.02
Gender	0.01



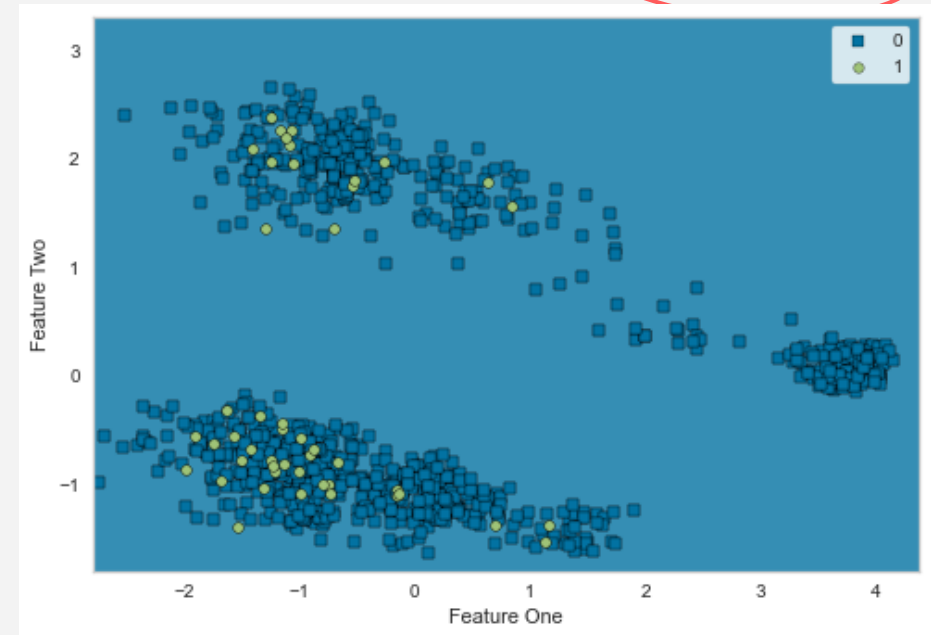
# Machine Learning Model Results



Stats

	Model	Accuracy	AUC	Recall	Prec.	F1	Kappa	MCC	TT (Sec)
dt	Decision Tree Classifier	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0120
ada	Ada Boost Classifier	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0250
gbc	Gradient Boosting Classifier	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.1550
xgboost	Extreme Gradient Boosting	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.1200
rf	Random Forest Classifier	0.9996	1.0000	0.9923	1.0000	0.9960	0.9958	0.9959	0.2440
lr	Logistic Regression	0.9988	1.0000	0.9923	0.9857	0.9886	0.9880	0.9882	1.2910
knn	K Neighbors Classifier	0.9988	0.9961	0.9923	0.9857	0.9886	0.9880	0.9882	0.0340
lightgbm	Light Gradient Boosting Machine	0.9984	0.9999	0.9846	0.9857	0.9846	0.9838	0.9841	0.1050
catboost	CatBoost Classifier	0.9976	0.9999	0.9609	0.9917	0.9753	0.9741	0.9746	2.1030
svm	SVM - Linear Kernel	0.9940	0.0000	0.9526	0.9390	0.9426	0.9395	0.9412	0.0130
nb	Naive Bayes	0.9880	0.9950	0.9308	0.8557	0.8899	0.8836	0.8854	0.0100
et	Extra Trees Classifier	0.9772	0.9955	0.5974	0.9550	0.7226	0.7118	0.7391	0.2450
lda	Linear Discriminant Analysis	0.9644	0.9712	0.4577	0.7733	0.5671	0.5501	0.5746	0.0160
ridge	Ridge Classifier	0.9485	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0150
dummy	Dummy Classifier	0.9485	0.5000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0110
qda	Quadratic Discriminant Analysis	0.6904	0.5081	0.3288	0.0603	0.0975	0.0225	0.0253	0.0280

Diagram



Table

	ID#	Gender	Age	Hypertension	Heart_Disease	Ever_Married	Work_Type	Residence_Type	Avg_Glucose_Lvl	BMI	Smoker	Stroke
0	1	Male	67	0	1	Yes	Private	Urban	228.69	36.6	Former	1
1	2	Female	61	0	0	Yes	Self-employed	Rural	202.21	NaN	Never	1
2	3	Male	80	0	1	Yes	Private	Rural	105.92	32.5	Never	1

# Conclusions

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