Theme

Dark

Dataset & Model Settings

Select dataset

Diabetes (Pima Indi...

Test size

0.20

Random state

42   −   +

Select model

Logistic Regression

☐ Compute SHAP
explanations (slower)

Sample rows for pairplot/SHAP

800

🏥 Healthcare Data Analysis — ML Dashboard

Zeros in Glucose/BloodPressure/SkinThickness/Insulin/BMI are treated as missing and imputed with median.

Dataset Preview

	Pregnancies	Glucose	BloodPressure	SkinThickness	Insulin	BMI	DiabetesPedigreeFunction	Age	Outcome
0	6	148	72	35	None	33.6	0.627	50	
1	1	85	66	29	None	26.6	0.351	31	
2	8	183	64	None	None	23.3	0.672	32	
3	1	89	66	23	94	28.1	0.167	21	
4	0	137	40	35	168	43.1	2.288	33	

Missing Value Analysis

Missing Values Heatmap
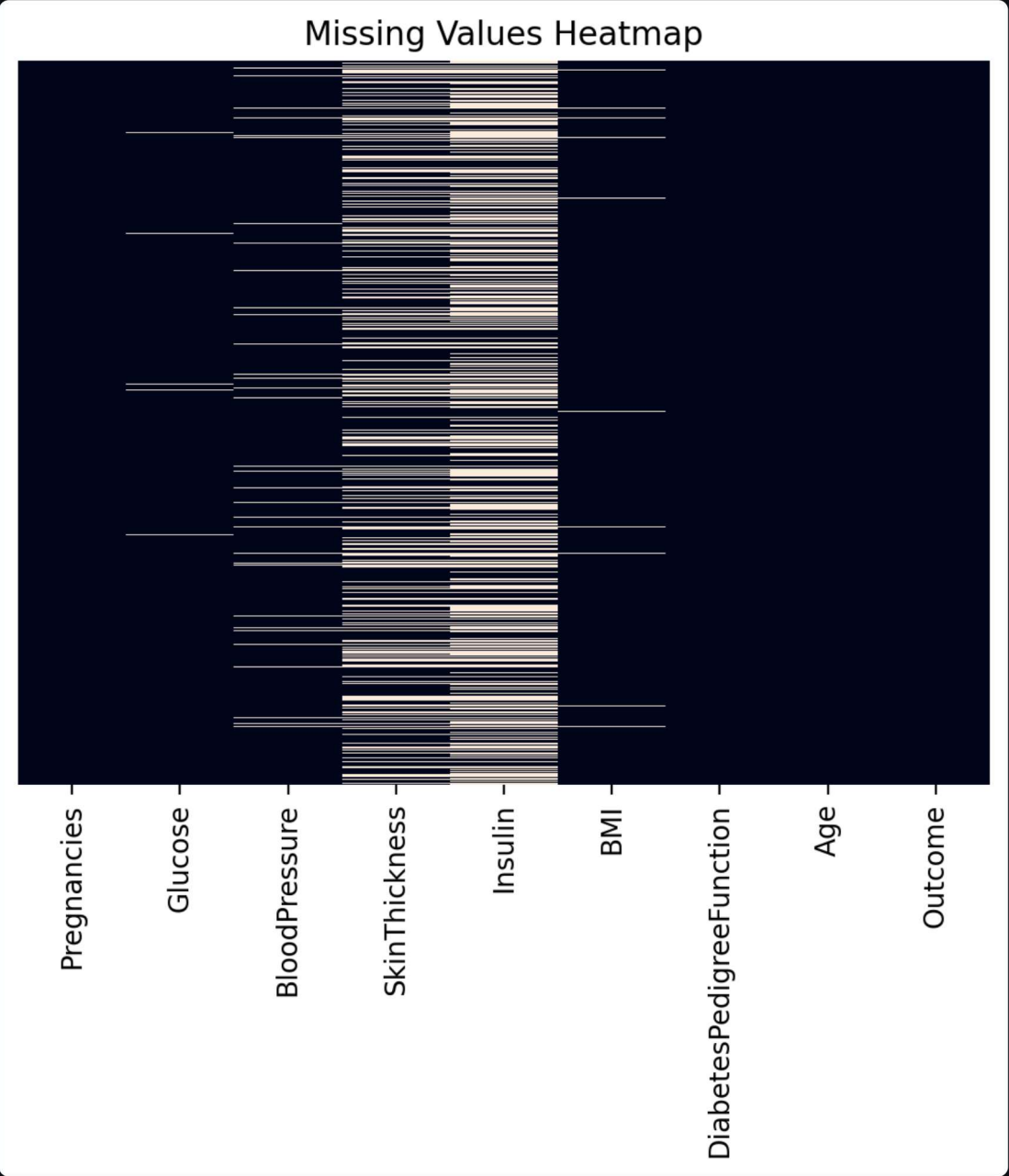
Missing % by column

	missing_%
Pregnancies	
Glucose	0.6
BloodPressure	4.5
SkinThickness	29.5
Insulin	48.
BMI	1.4
DiabetesPedigre	
Age	
Outcome	

Target Distribution

Counts by target

Target share
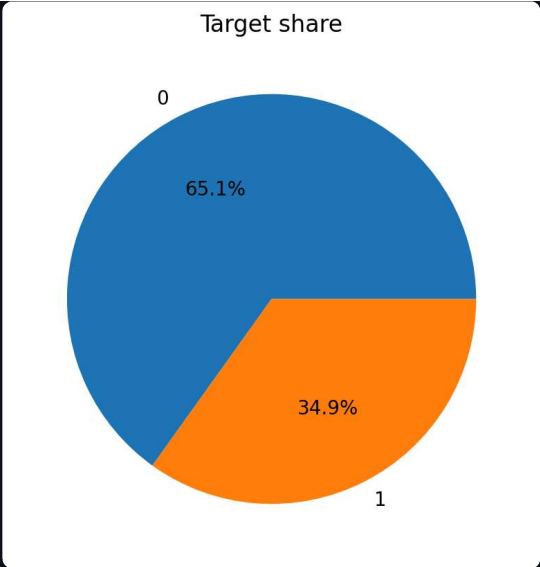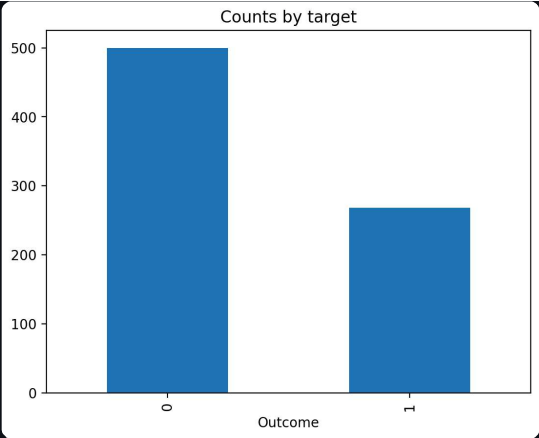
Pairplot (sampled)
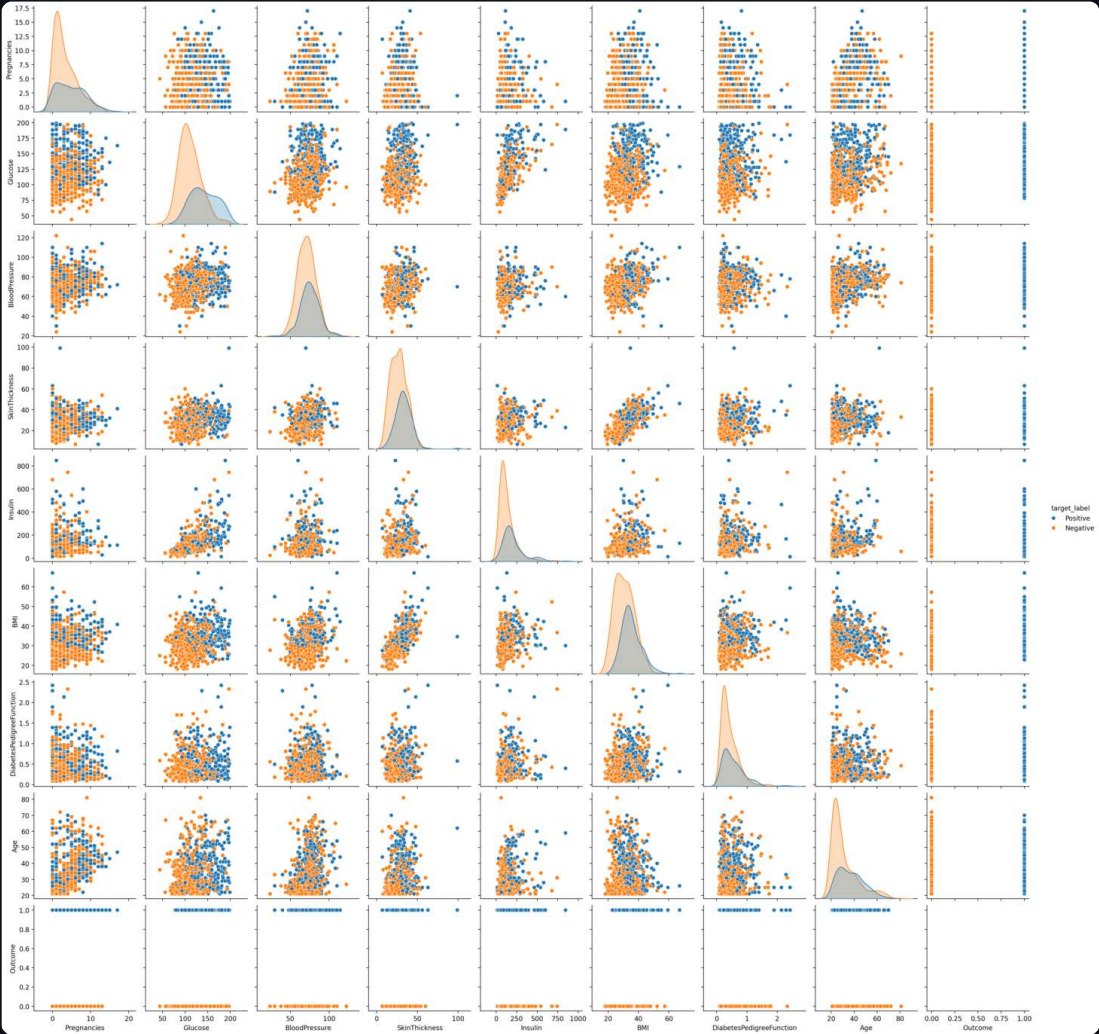
🔁 Train / Evaluate

📈 Model Performance

	metric	value
0	accuracy	0.707
1	precision	0.
2	recall	0.
3	f1	0.545
4	roc_auc	0.81

Download metrics (CSV)

Confusion Matrix

ROC Curve

🔍 Feature Importance
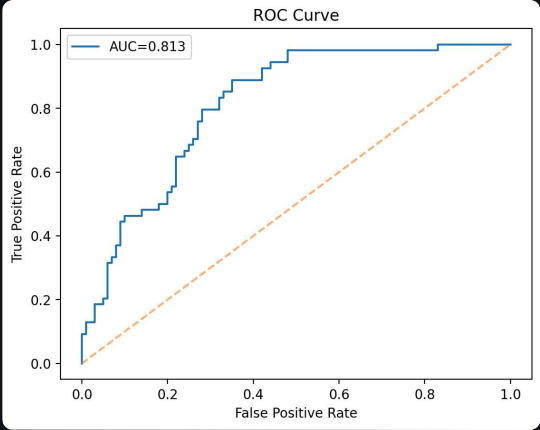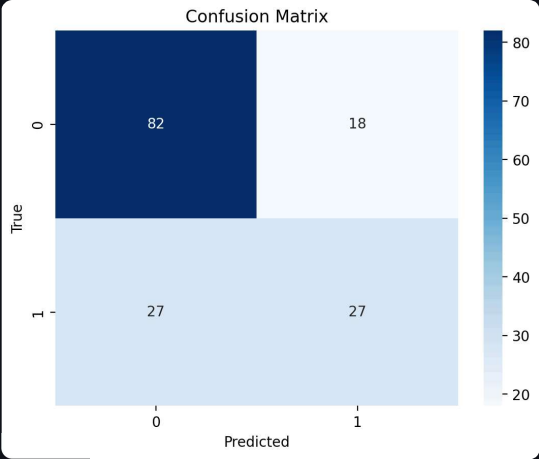
Top Feature Importances
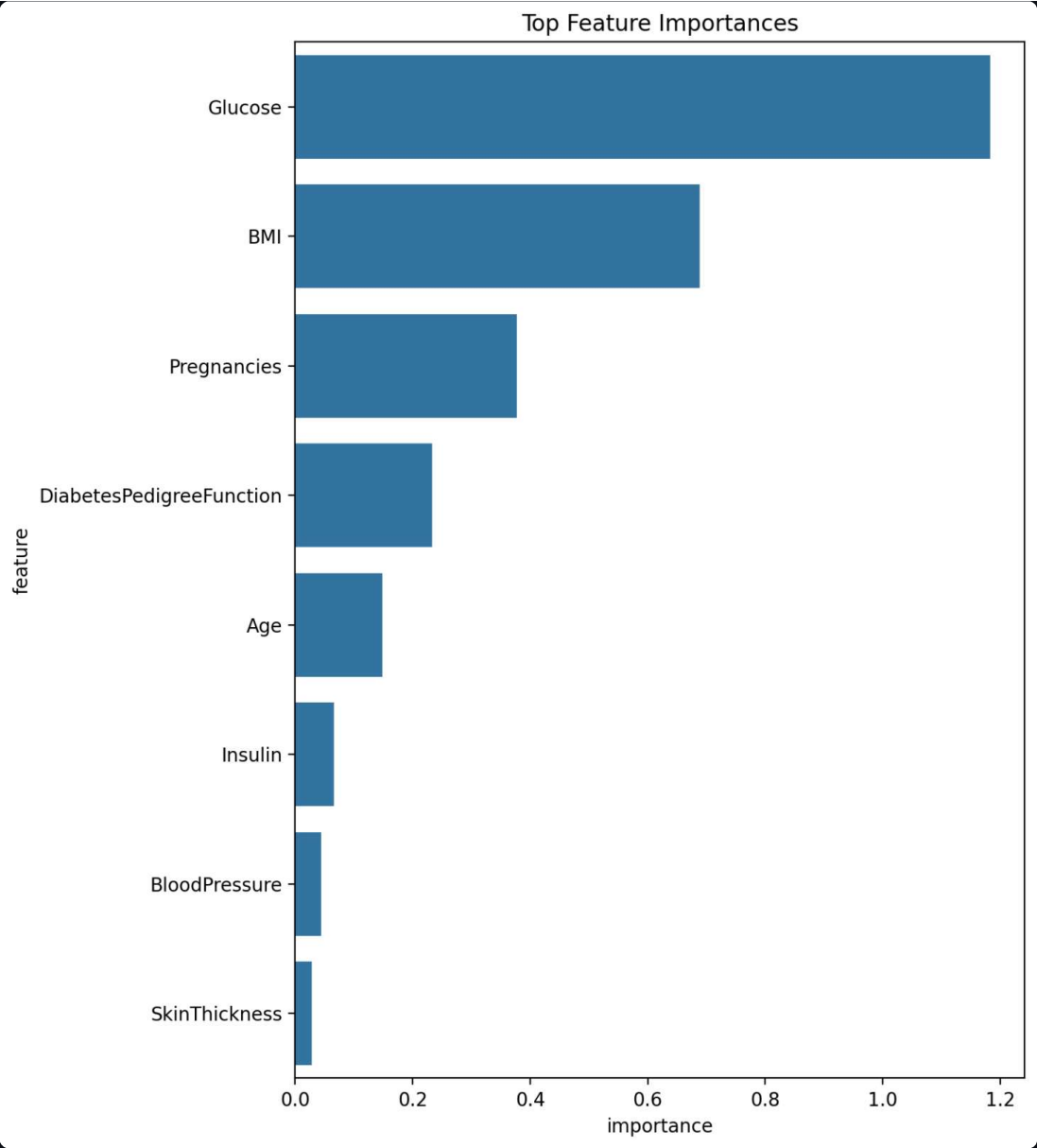
Download feature importances (CSV)

Training complete. You can now use the prediction form below.

🧪 Real-time Prediction

Pregnancies

| 3.00 | — | + |

Glucose

| 117.00 | — | + |

BloodPressure

| 72.00 | — | + |

SkinThickness

| 29.00 | — | + |

Insulin

125.00   −   +

BMI

32.30   −   +

DiabetesPedigreeFunction

0.37   −   +

Age

29.00   −   +

Predict