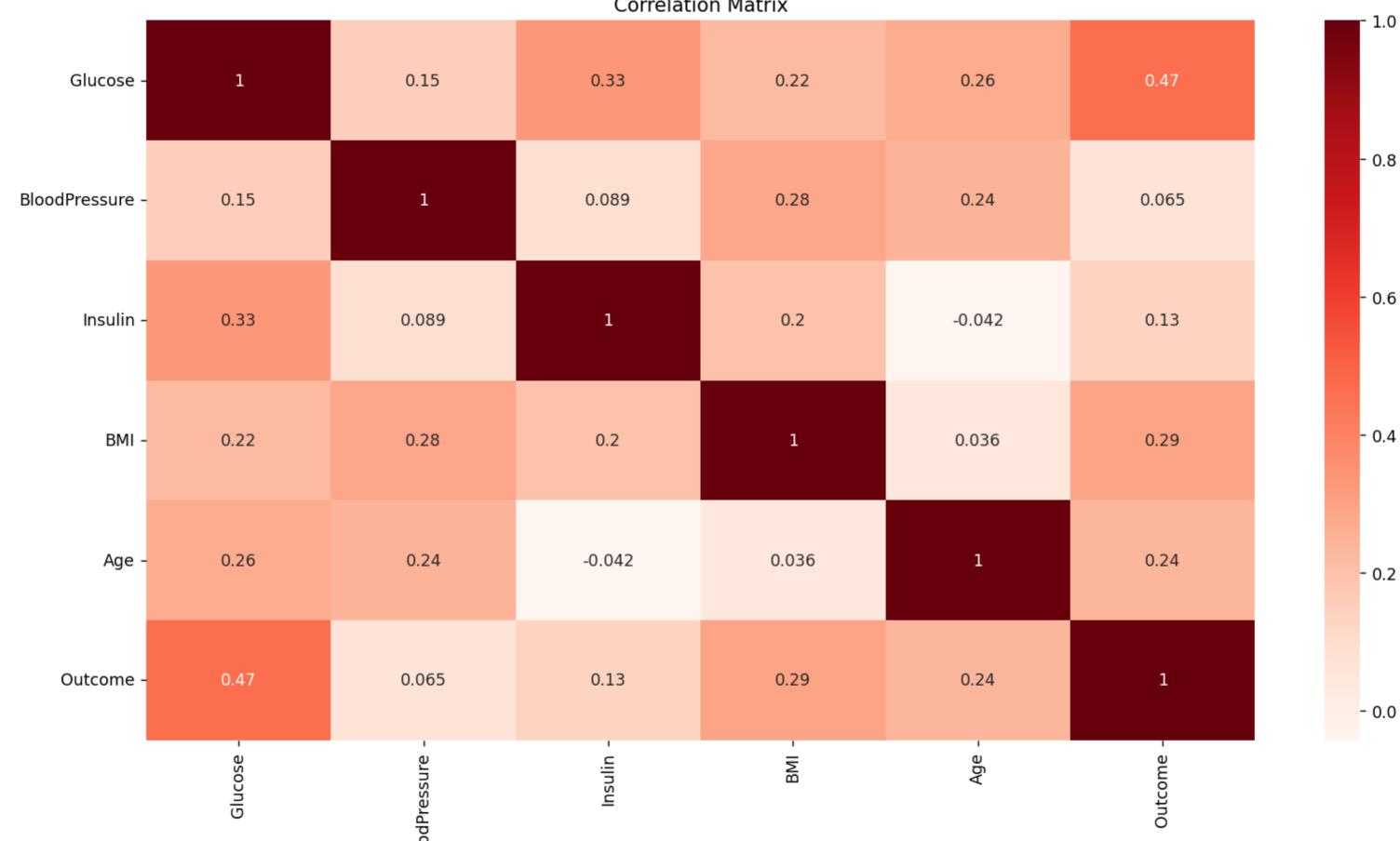
The first 10 rows of the alternated datase							e:
G	Slucose	BloodPres	ssure	Insulin	BMI	Age	Outcome
0	148		72	0	33.6	50	1
1	85		66	0	26.6	31	0
2	183		64	0	23.3	32	1
3	89		66	94	28.1	21	0
4	137		40	168	43.1	33	1
5	116		74	0	25.6	30	0
6	78		50	88	31.0	26	1
7	115		0	0	35.3	29	0
8	197		70	543	30.5	53	1
9	125		96	0	0.0	54	1

	Glucose	BloodPressure	Insulin	BMI	Age	Outcome		
Glucose	1.000000	0.152590	0.331357	0.221071	0.263514	0.466581		
BloodPressure	0.152590	1.000000	0.088933	0.281805	0.239528	0.065068		
Insulin	0.331357	0.088933	1.000000	0.197859	-0.042163	0.130548		
BMI	0.221071	0.281805	0.197859	1.000000	0.036242	0.292695		
Age	0.263514	0.239528	-0.042163	0.036242	1.000000	0.238356		
Outcome	0.466581	0.065068	0.130548	0.292695	0.238356	1.000000		
From the correlation matrix heatmap we can say that 'Glucose' and 'Outcome' are strongly correlated								

Correlation Matrix



```
The Percentage accuracy on training data:
78.33876221498372
The Percentage accuracy on testing data:
74.02597402597402
Accuracy for different learning rates :
LR = 0.00001
70.12987012987013
LR = 0.001
65.5844155844156
LR = 0.05
65.5844155844156
LR = 0.1
65.5844155844156
Hence the optimal learning rate is 0.00001
The Percentage accuracy on training data:
72.80130293159608
The Percentage accuracy on testing data:
70.12987012987013
```

