Prediction Mobile Churn Analysis For Mitigation Strategies In Telecommunication Industry

		total day charge	total eve minutes	total eve calls	total eve charge	total night minutes	total night calls	total night charge	total intl minutes	total intl calls	total intl charge	customer ser
331	8	46.34	248.7	74	21.14	197.4	111	8.88	9.5	2	2.57	
332	L	21.81	197.1	93	16.75	138.4	152	6.23	12.2	5	3.29	
333	9	28.83	264.1	87	22.45	206.3	78	9.28	9.3	4	2.51	
334	5	34.22	152.8	66	12.99	233.2	101	10.49	7.5	4	2.03	
335	7	36.5	138.5	90	11.77	169.1	44	7.61	8.6	4	2.32	
336	0	28.76	271.5	77	23.08	170.2	104	7.66	10.6	2	2.86	
337	L	33	176.6	110	15.01	302.8	136	13.63	7	7	1.89	
338	4	39.75	266.5	94	22.65	212.7	104	9.57	7.6	3	2.05	
339	7	38.27	199.2	127	16.93	175.5	102	7.9	14.6	2	3.94	
340	8	36.21	176.6	71	15.01	262.6	126	11.82	9.1	1	2.46	

Model Evaluation:

Accuracy: 0.9505247376311844

Classification Report:

precision recall f1-score support

```
    False       0.95       0.99       0.97       566
     True       0.94       0.72       0.82       101

 accuracy                             0.95       667
```

macro avg 0.94 0.86 0.89 667 weighted avg 0.95 0.95 0.95 667

Confusion Matrix:

0	1
561	5
28	73

Make a prediction:

Account Length

65

International Plan

no

Voice Mail Plan

no

Number Vmail Messages

0.00

Total Day Minutes

129.10

Total Day Calls

137.00

Total Day Charge

21.95

Total Even Minutes

228.50

Total Even Calls

83.00

Total Even Charge

19.42

Total Night Minute

208.80

Total Night Calls

111.00

Total Night Charge

9.40

Total International Minutes

12.70

Total International Calls

6.00

Total International Charge

3.43

Customer Service Calls

4.00

Submit

Input Features and Values:

	l_day_charge	total_eve_minutes	total_eve_calls	total_eve_charge	total_night_minutes	total_night_calls	total_night_charge	total_intl_minutes	total_intl_calls	total_intl_charge	custo
0	21.95	228.5	83	19.42	208.8	111	9.4	12.7	6	3.43	

The Probability of Mobile Churn: `0.8136581712232884`

prediction: True

predicted value: True