

# Credit Risk Prediction App

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credit\_approval\_sample.csv 78.6KB



Data preview:

	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13
0	b	30	85.7193	?	p	cc	h	0.9472	t	f	60.3847	t	p
1	b	45	4.8396	?	p	i	v	0.5952	f	f	43.7383	f	p
2	b	None	14.8517	y	?	d	v	0.6579	t	t	82.3096	f	s
3	a	45	41.3968	l	?	i	v	0.0639	f	t	92.3827	f	g
4	a	None	48.3392	u	gg	?	bb	0.166	t	f	63.9145	t	g

Select the target column

A1



Run ML Pipeline

Training completed!

## Model Evaluation Results

### Logistic Regression

Accuracy: 0.319

ROC-AUC: 0.450

Classification Report:

```
{
  "0": {
    "precision": 0.38461538461538464
    "recall": 0.35714285714285715
    "f1-score": 0.37037037037037035
    "support": 42
  }
  "1": {
    "precision": 0.22580645161290322
    "recall": 0.1590909090909091
    "f1-score": 0.18666666666666668
    "support": 44
  }
  "2": {
    "precision": 0.3235294117647059
    "recall": 0.4230769230769231
    "f1-score": 0.36666666666666664
    "support": 52
  }
  "accuracy": 0.3188405797101449
  "macro avg": {
    "precision": 0.3113170826643312
    "recall": 0.3131035631035631
    "f1-score": 0.30790123456790125
    "support": 138
  }
  "weighted avg": {
    "precision": 0.31096274954042463
    "recall": 0.3188405797101449
    "f1-score": 0.310402576489533
    "support": 138
  }
}
```

## Random Forest

Accuracy: 0.290

ROC-AUC: 0.428

## Classification Report:

```

{
  "0": {
    "precision": 0.2857142857142857
    "recall": 0.38095238095238093
    "f1-score": 0.32653061224489793
    "support": 42
  }
  "1": {
    "precision": 0.28205128205128205
    "recall": 0.25
    "f1-score": 0.26506024096385544
    "support": 44
  }
  "2": {
    "precision": 0.3023255813953488
    "recall": 0.25
    "f1-score": 0.2736842105263158
    "support": 52
  }
  "accuracy": 0.2898550724637681
  "macro avg": {
    "precision": 0.2900303830536389
    "recall": 0.29365079365079366
    "f1-score": 0.28842502124502306
    "support": 138
  }
  "weighted avg": {
    "precision": 0.2908057003102503
    "recall": 0.2898550724637681
    "f1-score": 0.2870182265511868
    "support": 138
  }
}
```

## XGBoost

Accuracy: 0.319

ROC-AUC: 0.458

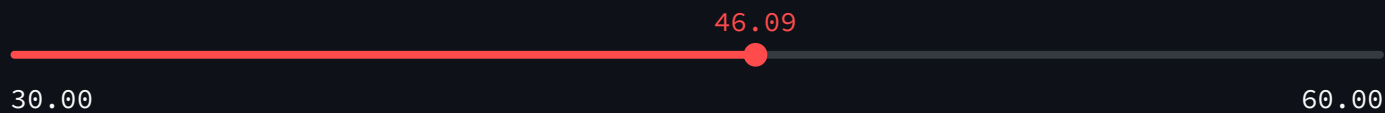
### Classification Report:

```

{
  "0" : {
    "precision" : 0.325
    "recall" : 0.30952380952380953
    "f1-score" : 0.3170731707317073
    "support" : 42
  }
  "1" : {
    "precision" : 0.3191489361702128
    "recall" : 0.3409090909090909
    "f1-score" : 0.32967032967032966
    "support" : 44
  }
  "2" : {
    "precision" : 0.3137254901960784
    "recall" : 0.3076923076923077
    "f1-score" : 0.3106796116504854
    "support" : 52
  }
  "accuracy" : 0.3188405797101449
  "macro avg" : {
    "precision" : 0.3192914754554304
    "recall" : 0.3193750693750694
    "f1-score" : 0.3191410373508408
    "support" : 138
  }
  "weighted avg" : {
    "precision" : 0.3188860774035177
    "recall" : 0.3188405797101449
    "f1-score" : 0.3186804890003729
    "support" : 138
  }
}
```

## Sample Prediction

Select value for A2



Select value for A3



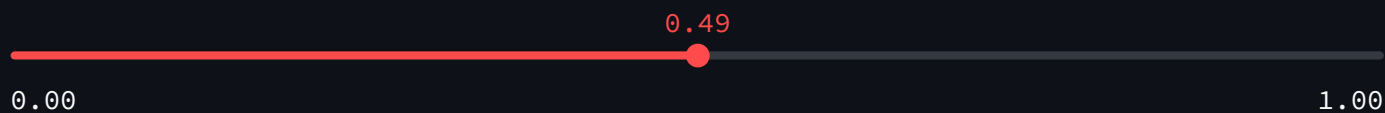
Select value for A4

Select value for A5

Select value for A6

Select value for A7

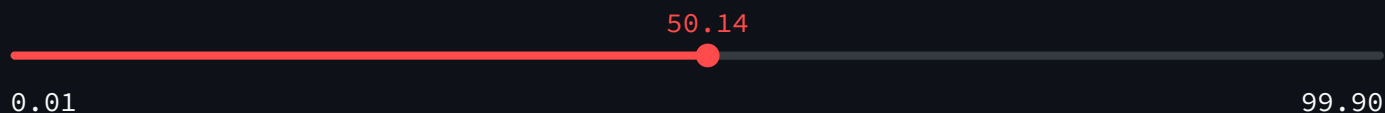
Select value for A8



Select value for A9

Select value for A10

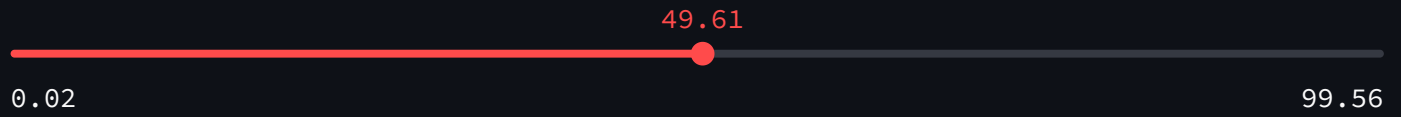
Select value for A11



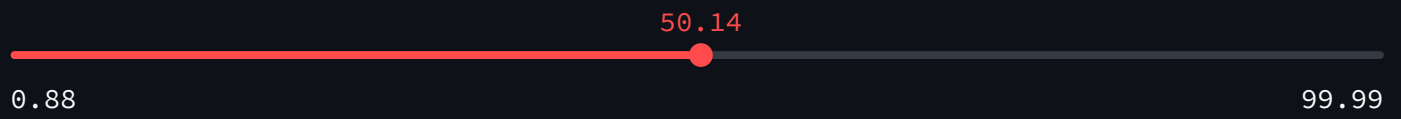
Select value for A12

Select value for A13

Select value for A14



Select value for A15



Select value for A16

+

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Predict Loan Approval