ABOUT ETHERDOM

A mobile app that helps to make predictions of the rise and fall of a cryptocurrency called **Ethereum.**

THE PROBLEM

- ✓ Uncertainty of buying and selling of cryptocurriencies due to variance in price.

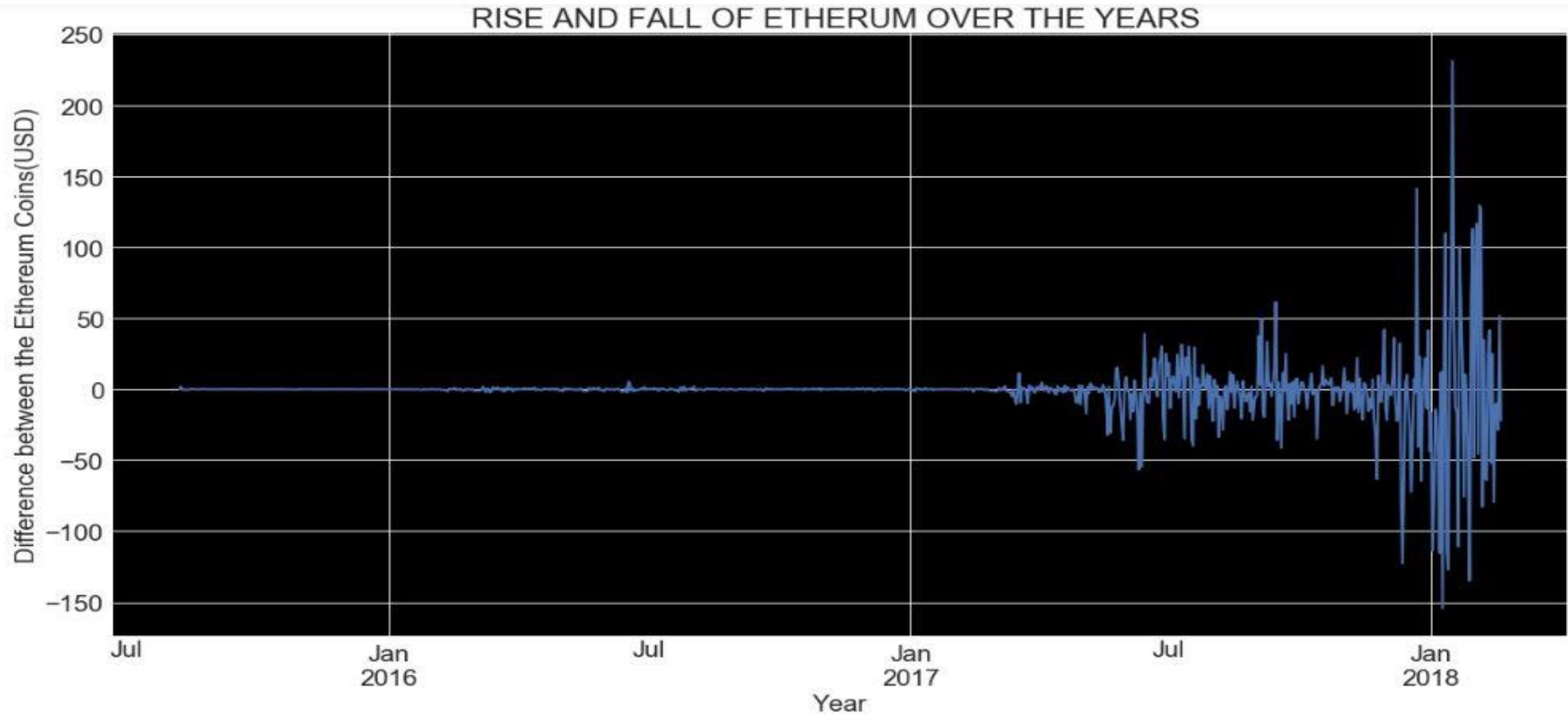- ✓ Poor business decisions by Business Experts due to the volatile nature of cryptocurrencies

APPROACH

- ✓ Analysis of dataset from 2015 to date.

- ✓ Model training using Machine Learning Algorithms

- ✓ Model validation using Confusion matix and Classification Report

- ✓ Making predictions

COMPARISON OF ETHERUM OPEN, CLOSE, HIGH AND LOW PRICES OVER THE YEARS

RISE AND FALL OF ETHERUM OVER THE YEARS

Ability to make predictions of the rise and fall of Ethereum over time.

*- **Prediction of Nov 3, 2019***

Out[86]:

	Open	High	Low	Close	Year	Month	Day
840	0.994568	1.07	0.936615	1.01	2015	11	3
111	305.760000	306.40	290.580000	291.69	2017	11	1
126	333.480000	333.48	311.790000	317.08	2017	10	17
710	11.130000	13.53	11.090000	13.53	2016	3	12
419	7.150000	7.62	7.080000	7.52	2016	12	28

In [53]: `y_pred`

```
Out[53]: array([ 1.,  1.,  1., -1., -1., -1.,  1., -1., -1.,  1., -1., -1.,  1.,
                 1., -1., -1., -1.,  1., -1., -1.,  1., -1., -1.,  1., -1., -1.,
                 1., -1., -1., -1., -1.,  1.,  1.,  1., -1.,  1.,  1.,  1., -1.,
                 1., -1.,  1., -1.,  1., -1.,  1.,  1.,  1., -1., -1., -1.,  1.,
                 1., -1., -1., -1.,  1.,  1., -1., -1.,  1.,  1., -1.,  1.,  1.,
                 1.,  1., -1.,  1.,  1.,  1.,  1., -1., -1., -1.,  1., -1., -1.,
                 1., -1.,  1., -1., -1.,  1., -1.,  1.,  1.,  1., -1.,  1.,  1.,
                -1., -1.,  1., -1.,  1.,  1.,  1.,  1., -1.,  1., -1.,  1.,  1.,
                 1.,  1., -1.,  1.,  1.,  1., -1.,  1., -1., -1., -1., -1.,  1.,
                -1.,  1.,  1., -1., -1., -1.,  1., -1.,  1.,  1., -1.,  1.,  1.,
                -1., -1., -1., -1.,  1., -1.,  1., -1.,  1., -1.,  1., -1.,  1.,
                 1., -1.,  1., -1., -1., -1., -1.,  1.,  1., -1.,  1.,  1., -1.,
                 1.,  1., -1.,  1., -1., -1.,  1.,  1., -1.,  1.,  1.,  1., -1.,
                 1., -1.,  1.,  1., -1.,  1., -1.,  1., -1., -1., -1.,  1., -1.,
                 1.,  1., -1.,  1.])
```
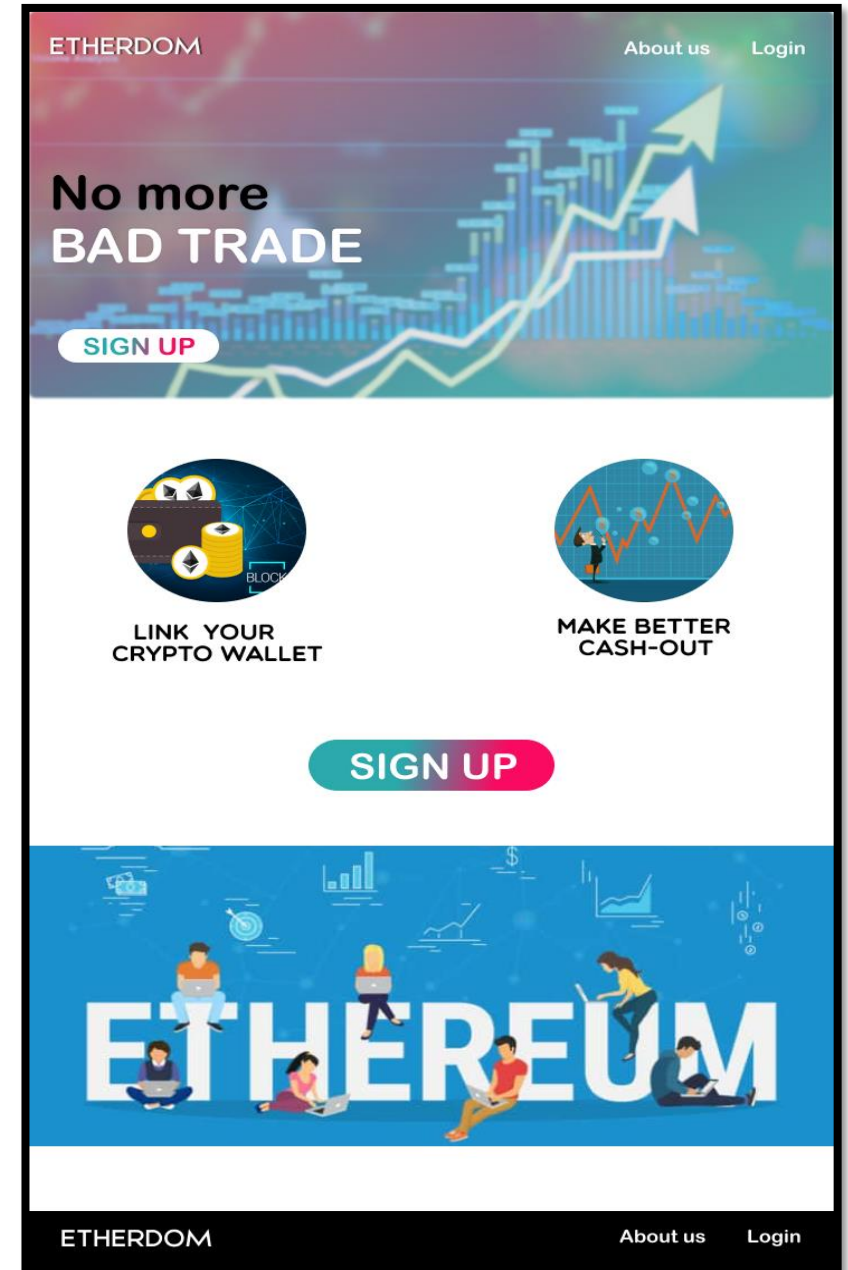
In [80]: `logReg.predict([[0,0,0,0,2019,11,3]])`

Out[80]: `array([1.])`

In [84]:
```
target_names = ["Dropped", "Static", "Increase"]
print(classification_report(y_test, y_pred,target_names=target_names))
```

```
              precision   recall  f1-score   support

     Dropped       0.94     0.82      0.87       103
      Static       0.00     0.00      0.00         2
    Increase       0.78     0.94      0.85        81

   avg / total      0.86     0.86      0.86       186
```
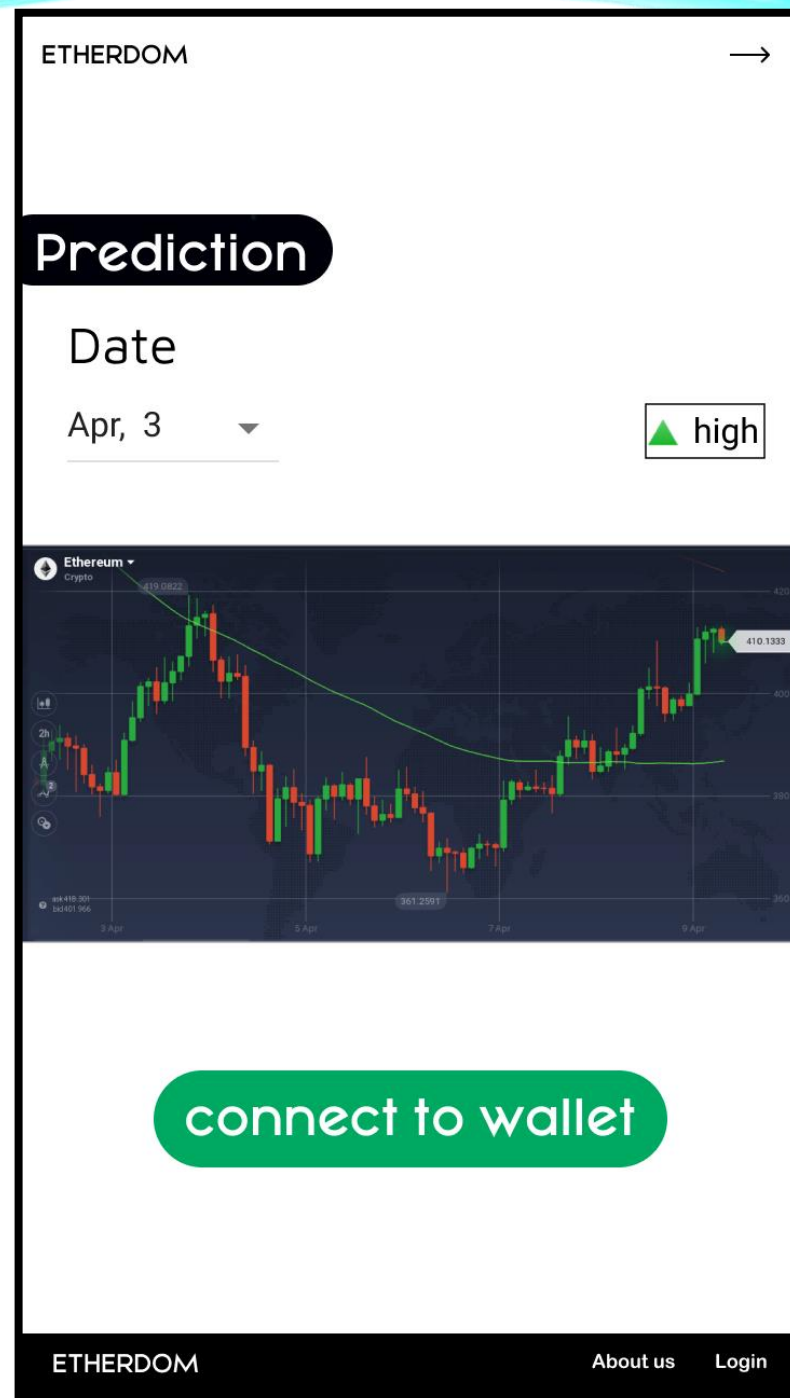
ETHERDOM MOBILE APP

✓*Through the application of Machine Learning, we developed a prediction system-ETHERDOM*

ETHERDOM MOBILE APP (v1.0)

- ✓ *Prediction interface*
- ✓ *Chose date*
- ✓ *Status of price of Ethereum.*

FUTURE RELEASE

✓ Extend the model to cover other cryptocurrencies like Bitcoin, Iota, Litecoin, Monero etc.

✓ Use other machine learning algorithms so as to produce a better accuracy.

✓ Increase the size of the dataset over time.