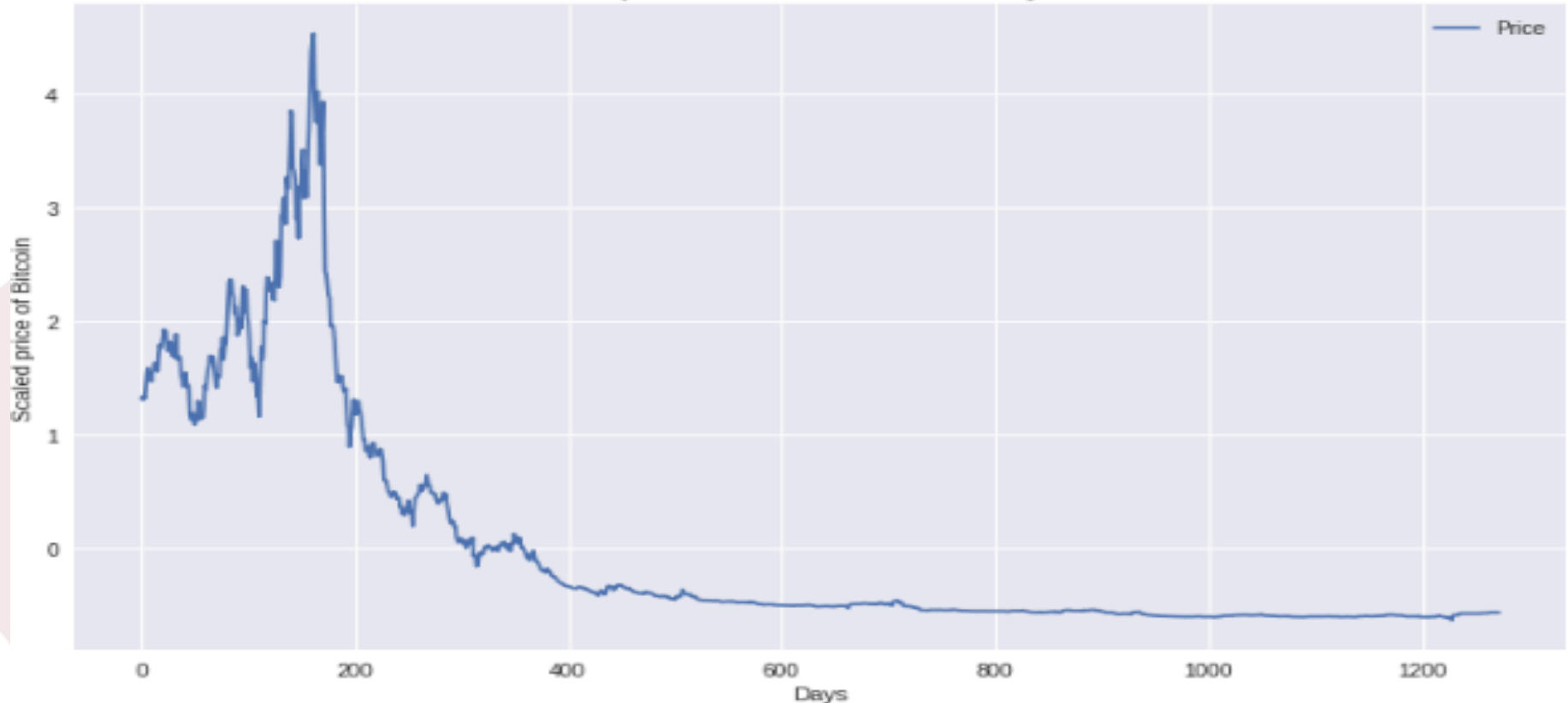


# Mini-projeto com LSTMs

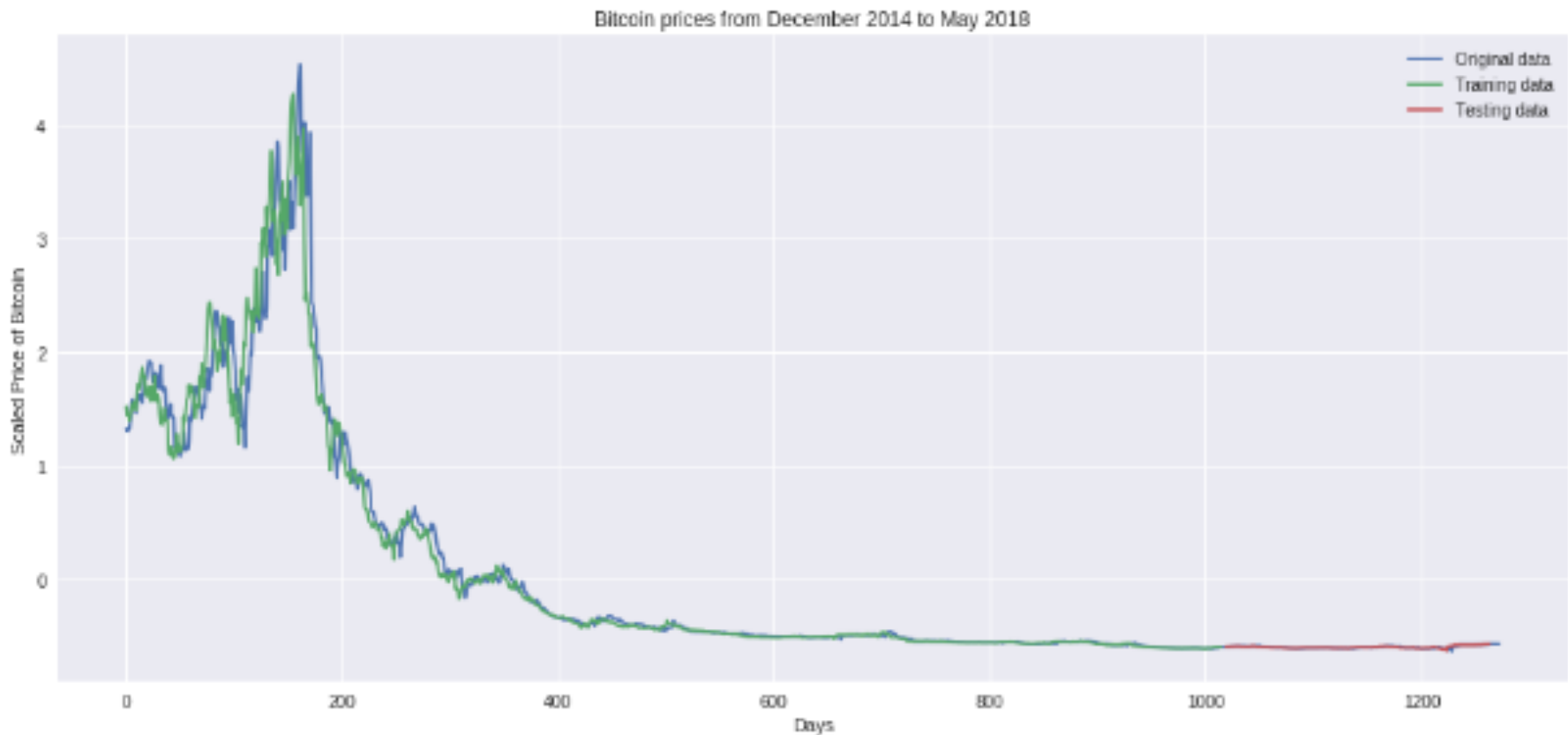
Empregar LSTM para prever o preço do Bitcoin de dezembro de 2014 a maio de 2018!

Bitcoin prices from December 2014 to May 2018



# Mini-projeto com LSTMs

Usar os primeiros 80% dos registros para treinar e restante 20% para teste



# Mini-projeto com LSTMs

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- <https://heartbeat.fritz.ai/a-beginners-guide-to-implementing-long-short-term-memory-networks-lstm-eb7a2ff09a27>

# Mini-projeto com LSTMs (Credits Brian Mwangi)



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This is a guide on how you can implement time series in RNNs using LSTMs to determine the future prices of bitcoin

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**brynmwangy** Add files via upload    Latest commit efff086 on 27 May

<a href="#">README.md</a>	Initial commit	4 months ago
<a href="#">btc.csv</a>	Add files via upload	4 months ago
<a href="#">btc.ipynb</a>	Created using Colaboratory	4 months ago

[README.md](#)

## predicting-bitcoin-prices-using-LSTM

This is a guide on how you can implement time series in RNNs to determine the future prices of bitcoin

## Importing libraries

We're going to work with a variety of libraries that we'll have to install first in our Colab notebook and then import into our environment.

```
#install all the required dependancy libraries
!pip install tensorflow #LSTM implementation
!pip install numpy #for matrix multiplication
!pip install pandas #define the data structures
!pip install matplotlib #for visualization
!pip install scikit-learn #for normalizing our data(scaling)

#importing the libraries
import tensorflow as tf
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
from sklearn.preprocessing import StandardScaler
import io
%matplotlib inline
```

# Geração de Textos com LSTMs

---



- (Não faz parte do Mini-projeto)
- Outra aplicação com código e instruções
- Tarefa de previsão de sequências
  
- <https://www.analyticsvidhya.com/blog/2017/12/fundamentals-of-deep-learning-introduction-to-lstm/>

