**Linear Regression Algorithm**

In statistics, linear regression is a linear approach to modelling the relationship between a scalar response and one or more explanatory variables (also known as dependent and independent variables).

In CryptOL™ linear regression is used to extrapolate a trend from Yahoo Finance library asset. Linear regression and ordinary least squares (OLS) are decades-old statistical techniques that can be incorporated into machine learning to extrapolate a trend in the observed asset and predict the direction of future price movement.

Anvil Code:

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title="Linear Regression Algorithm",

large=True,

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])

**Time Series**

Time series forecasting is used to predict future values based on previously observed values and one of the best tools for trend analysis and future prediction.

A famous and widely used forecasting method for time-series prediction is the Auto-Regressive Integrated Moving Average (ARIMA) model. CryptOL™ ARIMA model is capable of capturing a suite of different standard temporal structures in time-series data.

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title="**Time Series**",

large=True,

buttons=[

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])

**Long Short-Term Memory (LSTM)**

LSTM is an artificial recurrent neural network (RNN) architecture used in the field of deep learning. Unlike standard feedforward neural networks, LSTM has feedback connections.

In CryptOL™ LSTM is very powerful in sequence prediction problems because it is able to store past information. This is important in our case because the previous price of BitCoin is crucial in predicting its future price.

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title="**Long Short-Term Memory (LSTM)**",

large=True,

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])

**Logistic Regression**

Logistic regression is a statistical model that in its basic form uses a logistic function to model a binary dependent variable, although many more complex extensions exist.

In CryptOL™ Logistic Regression algorithm is a part of the Supervised Learning method of Machine Learning. It is a statistical method for the analysis of a dataset. It has one or more independent variables that determine an outcome. We use a training set and a test set of data to predict the selling price of BitCoin.

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title="**Logistic Regression Algorithm**",

large=True,

buttons=[

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])

**Survival Modeling**

Survival analysis is a statistical method that aims to predict the time to an event, such as death, the diagnosis of a disease or the failure of a mechanical part.

CryptOL™ adopts Cox's hazard model to predict BitCoin’s future rising or dropping probabilities. Specifically, we define the problem of Buy-and-Sell-Point Prediction from the survival analysis perspective. We apply the trained model for the cryptocurrency market forecasting on two cryptocurrencies traded on the CoinBase exchange.

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title="**Survival Modeling Algorithm**",

large=True,

buttons=[

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**CryptOL™ Proprietary**

Our “secret” proprietary algorithm incorporates the best in prediction techniques of all the standardized algorithms combined to produce the most accurate comprehensive value that is possible through Machine Learning.

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title="**CryptOL™ Proprietary Algorithm**",

large=True,

buttons=[

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