



**INFORMATICS  
INSTITUTE OF  
TECHNOLOGY**

**INFORMATICS INSTITUTE OF TECHNOLOGY**

In Collaboration with

**UNIVERSITY OF WESTMINSTER**

**BITSCAPE – Bitcoin Price Prediction System**

**A Final Project Report (FPR) by Isuru Wijesekara**

Supervised by

**Mrs. Jayani Harischandra**

## Abstract

The correct price of bitcoin in the future is an important factor for customers to invest their money in bitcoin. When the bitcoin price is lower, there is no need to invest in bitcoin. So, users can invest more of their assets and resources in other economic resources. Cryptocurrency users are facing a big problem because crypto currency prices fluctuate by a high percentage within a very short time. There are a few factors affecting this problem. It is a challenge to provide a solution to this kind of problem. But it can be overcome by machine learning, pattern recognition, and data mining techniques.

Researchers and developers have done much research to provide solutions for cryptocurrency price prediction. This study also has an outcome to build bitcoin price prediction to overcome this problem. The developed solution, BITSCAPE, uses the pattern of bitcoin price data and COVID-19 deaths to predict the value of bitcoin on the user input date.

BITSCAPE is developed by combining machine learning regression algorithms and voting regression to create a hybrid model. A Web application was implemented and a research paper was completed as a result of this study. A Bitcoin price prediction will be displayed in the system according to the user's input number of deaths and input date.

**Keywords:** **Bitcoin, Machine Learning, Prediction**