

Bitcoin Price Prediction using Machine Learning

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Abstract—In this paper, we attempt to predict the Bitcoin price accurately taking into consideration various parameters that affect the Bitcoin value. For the first phase of our investigation, we aim to understand and identify daily trends in the Bitcoin market while gaining insight into optimal features surrounding Bitcoin price. Our data set consists of various features relating to the Bitcoin price and payment network over the course of five years, recorded daily. For the second phase of our investigation, using the available information, we will predict the sign of the daily price change with highest possible accuracy.

Keyword— Bayesian regression, Bitcoin, Bitcoin prediction, Blockchain, crypto currency, generalized linear model (GLM), machine learning



Siddhi S. Velankar was born in Pune, India on 23rd December 1995. She is currently studying Electronics and Telecommunication engineering in Pune Institute of Computer Technology. She has immense interest in fields like signal processing and machine learning and wishes to do further research in the same. This will be her first IEEE published paper.



Sakshi Valecha was born in Patiala, Punjab, India, in 1996. She is currently pursuing her B.E. from Savitribai Phule Pune University in the field of Electronics and Telecommunication from Pune institute of computer Technology in Pune, Maharashtra, India. With your conference Ms. Valecha is attempting to get a place in IEEE publication for the first time.



Shreya Maji, age 21, was born in Pune, India. She has been extremely devoted towards the technical education and is currently studying in final year of the undergraduate engineering course from SPPU, Pune, India. Her area of specialization is electronics and telecommunications. With the current project of Bitcoin Prediction, Ms. Shreya Maji is aiming for a place in IEEE publications for the first time.