Bitcoin
Price Prediction Using LSTM Models

SUBMITTED BY

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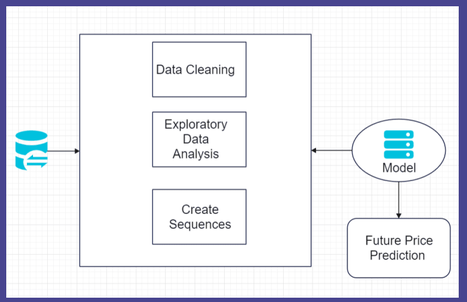
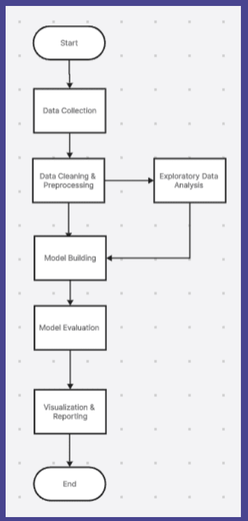
INTRODUCTION

This project involves predicting Bitcoin prices using a Long Short-Term Memory (LSTM) model. By analyzing historical price data, the LSTM model forecasts future trends, aiming to improve investment strategies and decision-making in the volatile cryptocurrency market. The approach offers a data-driven solution to enhance financial forecasting accuracy.

Architecture Diagram



Flow Chart



OBJECTIVES

Develop an LSTM Model: Build and train an LSTM model to predict Bitcoin prices based on historical data for accurate future price forecasting.Optimize Model Performance: Fine-tune the model parameters to enhance prediction accuracy and minimize errors.Create a User Interface: Implement a Streamlit application to visualize predictions and provide an accessible platform for users to interact with the model and upload data.

FUTURE ENHANCEMENT

Enhance Model Accuracy: Explore advanced techniques and additional features to improve the precision of Bitcoin price predictions, potentially incorporating other financial indicators and sentiment analysis.Expand to Other Cryptocurrencies: Extend the model to forecast prices of other cryptocurrencies, broadening the scope of the application and providing insights into diverse digital assets.

REFERENCES

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