

Correlation builder & Predictive algorithm

Proof of Concept

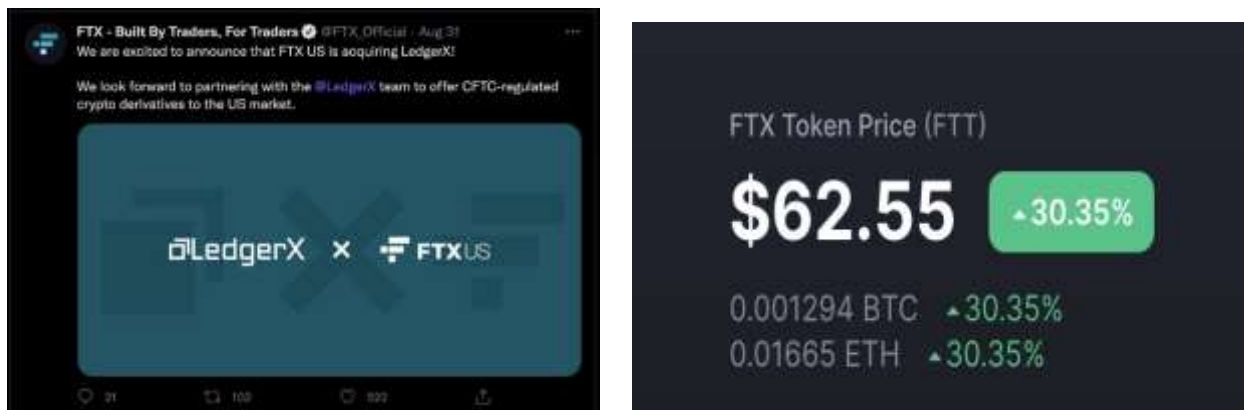
POC is to build a correlation between **Market movement** of a Crypto positive or negative to the corresponding influence created by a **news, social media or company announcement**.

Examples of a correlation for a Crypto

- 1) **Company Twitter Announcement** increased the price value above its 2 Standard Deviation movement



- 2) Company Twitter Announcement increased the price value above its 2 Standard Deviation movement



- 3) TELCOIN (TEL) value increased with rumours in social media around possible Version 3 building with improvements



POC Requirements:

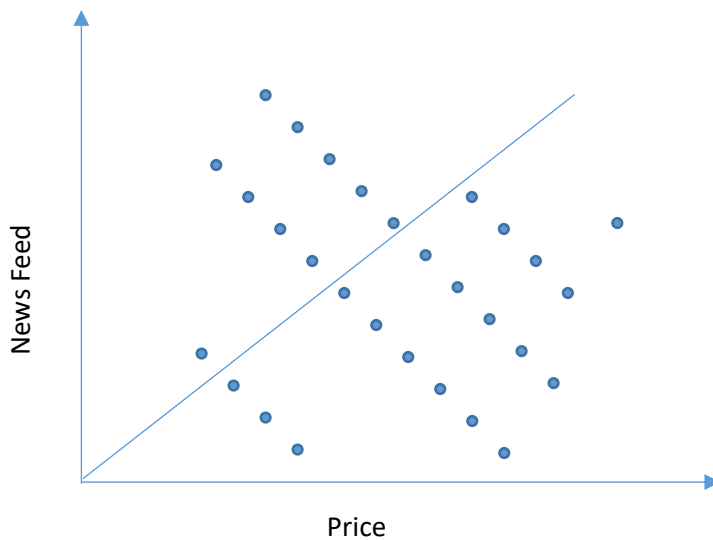
- 1) Analyze & capture to build correlations
 - a. Price movements greater or lesser than 2 standard deviation of moving price vs News/Social Media sentiments
 - b. Price movements greater or lesser than 2 standard deviation but no news or social media sentiments
 - c. Analyze social media or News sentiment where no corresponding price movement
- 2) Analyze & capture the duration of the price movement based on the influencing sentiments
 - a. Company release
 - b. Regulation Change
 - c. Partnerships
 - d. Adoptions
- 3) Build a predictive analysis for future price movement (positive or negative) based on the correlations captured for future sentiments. For scope of this will limit to one or few Crypto.
 - a. Put a design proposal for this predictive analysis using
 - i. Our results correlation results
 - ii. Existing sentiment analysis site like lunarcrush, etc results

Output Expectation – Interactive Tool:

- 1) Option to **select a crypto**, scope is only for crypto for market cap **500Million** US dollar

Crypto 

- 2) Result of **correlation graph**



Logic to build the correlation

- 1) Get the history **price movement** of the selected crypto for **2 years by each day**
 - 2) **Identify** days where price breached greater or lesser than 2 standard deviations
 - 3) On days where breach is observed, then get **hourly breakdown** of the price change
 - 4) Build a correlation between the **price change** and **social media/news release** regarding that crypto, for POC we can start with **Twitter account feeds** to correlate the time
- 3) **Correlation table** with below information for 3 ways
 - a. Co-related
 - b. Price moved by no correlation
 - c. No news but price moved

Date	Twitter Feed	Price Movement	Duration	Score	Dimension
Date of price movement	Twitter feed information	Positive or negative movement	Duration of the price movement by hours	Score designates the sentiment correlation to duration. If score is 200% then duration is 2days etc.	