

The SFU logo consists of the letters "SFU" in white, bold, sans-serif font, set against a solid red rectangular background.

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# Price Signals Forecast for Financial Assets

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# Importance of Project

- Providing buy and sell signals so as to maximize the profit for a trader
- Showing how price movements of centralized and decentralized assets get influenced by a particular news and how is this influence correlated.

# Challenges and Proposed Solution

## Existing Solution:

- Most predictive models work with only OHLCV (Open High Low Close and Volume) data.

## Proposed Solution:

- Building a predictive model that works for both Crypto and Stocks assets based on news and public sentiment.

## Challenges:

- Integrating multiple (6) data sources
- Incorporating news and public sentiment
- Building user-friendly dashboards that help novice traders
- Making predictions in real-time



# Completed Task - Data Collection

## OHLC Financial Data (Hourly)

Asset - *Cryptocurrency*

Source - *CoinMarketCap.com*

## Social Media Quantitative Metrics

Source - *Twitter and Reddit API*

Information - *Likes, Views, Comments etc*

## OHLC Financial Data (Hourly)

Asset - *Stocks*

Source - *Quandl*

## Traditional Media Qualitative Data

Source - *News Articles and Forums*

Information - *Financial and General News*

The current work is on schedule. Most data from the six data sources has been collected.

# Detail Schedule

Week No.	Scheduled Task	Description	Status
Week 1	Project proposal, Planning, Feasibility test	Finding area of interest Dividing work	Completed
Week 2	Project update Data Exploration, Data collection	Analyze features Understand its importance	Partially Completed
Week 3	Data cleaning Data integration	Extracting words of importance Clean, combine and aggregate different sources of data	In progress
Week 4	Data analysis Product development	Create an input feature vector Build a predictive model	Future work
Week 5	Product development	Design an Interactive Web Application with dashboards	Future work
Week 6	Product testing, Product evaluation, Performance improvements	Evaluating trained model Testing application	Future work



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# Thank you