

Data Preparation and Analysis (CSP 571)

1. Project Group:

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Project Topic:

Facilitation of Cryptocurrency price prediction by Sentiment analysis.

Application subject area – Cryptocurrency

What we seek to address

- Does historical data of BTC, LTC, status, or ratings influence this result?
- How keywords in daily news articles impact coin's trading performance.
- Is the Global sentiment library suitable for crypto sentiment analysis? If not, do we need to generate our own library?
- How does the Density Distribution of Deviation of High Price differ from Open Price?
- Can we discover if there is a correlation between investors and R.O.I?
- Do the total traded Quantity and Close Price of the coin hold any sort of relation between them?
- Which analysis model will be best for the analysis of the dataset?
- Can we analyze price movements and trading volumes and give next-day predictions?

Outline the project with the tasks and their status.

Tool : Asana

3/26/23, 3:24 PM

Cryptocurrency price prediction by Sentiment analysis

OverviewListBoardTimelineCalendarDashboardMessagesFiles

FilterSortHide

✓

Read Research paper

Complete

Feb 6 – 10

✓

Data Acquisition

Complete

Feb 11 – 17

+ Add task

🕒

Custom Web Scrapper

In Progress

Feb 20 – 28

🔍

Data Cleaning and Preprocess

In Progress

Mar 13 – 20

+ Add task

🔍

Text Preprocessing

In Progress

Mar 21 – 22

🔍

Further Preprocessing

In Progress

Mar 23 – 24

+ Add task

🔍

Sentiment Analysis

To Do

Mar 25 – Today

🔍

Sentiment Performance

To Do

Mar 27 – 28

+ Add task

🔍

Sentiment Aggregation

To Do

Mar 27 – 28

+ Add task

🔍

Data Exploration - notes

In Progress

Mar 29 – Apr 7

🔍

XRP Correlation Analysis

To Do

Mar 29 – 31

+ Add task

🔍

Time Series Analysis

To Do

Apr 1 – 2

🔍

XRP Response to Sentiment

To Do

Apr 3 – 4

+ Add task

🔍

Price Performance

To Do

Apr 5 – 7

🔍

which is better - Price Range or Exact Price

To Do

Apr 5 – 7

+ Add task

🔍

NN - Training

To Do

Apr 11 – 13

🔍

NN- Next-Day Price Prediction

To Do

Apr 14 – 16

+ Add task

🔍

NN - Initial Model Performance

To Do

Apr 17 – 19

🔍

NN - Model Tuning & Evaluation

To Do

Apr 20 – 23

+ Add task

🔍

Part-1: Reassess Project Goals

To Do

Apr 3 – 7

🔍

part-2: Reassess Project Goals

To Do

Apr 3 – 7

+ Add task

🔍

Fit a ML Model

To Do

Apr 8 – 10

🔍

Predictive Models With Deep Neural Nets

To Do

Apr 11 – 13

+ Add task

🔍

Write Project Report

To Do

Apr 24 – 28

🔍

Produce Final PPT

To Do

Apr 24 – 28

+ Add task

🔍

Collect Plots

To Do

Apr 17 – 23

🔍

Write Theory & Conclusions

To Do

Apr 17 – 23

+ Add task

🔍

Project Report & Presentati...

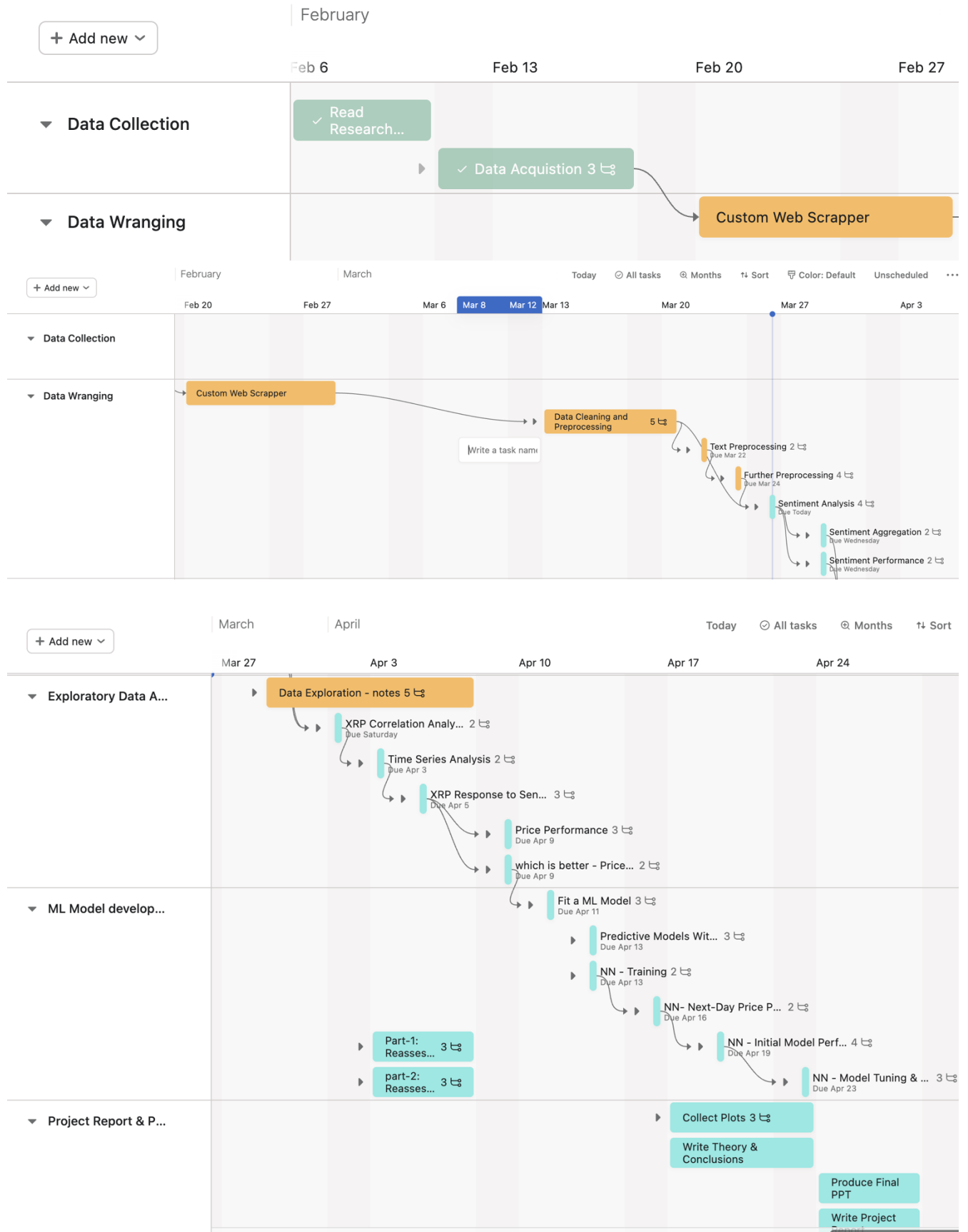
To Do

Apr 17 – 23

+ Add task

Cryptocurrency price prediction by Sentiment analysis - Asana

Section Wise TimeLine (Gantt Chart)



List Of Task with Assignments followed by dependency:

Sr no	Parent Task	Name	Assignee	Due Date
1	Data Collection	Read Research paper	Ashlesh Khajbage	2023-02-10
2		Data Acquisition	Ashlesh Khajbage	2023-02-17
3	Data Wrangling	Custom Web Scraper	Yeshwanth bolikonda	2023-02-28
4		Data Cleaning and Preprocessing	chandanapoloju	2023-03-20
5		Text Preprocessing	Swastika Pandit	2023-03-22
6		Further Preprocessing	Deepti P	2023-03-24
7		Sentiment Analysis	Ashlesh Khajbage	2023-03-26
8		Sentiment Performance	Deepti P	2023-03-28
9		Sentiment Aggregation	Yeshwanth bolikonda	2023-03-28
10	Exploratory Data Analysis	Data Exploration - notes	Swastika Pandit	2023-04-07
11		XRP Correlation Analysis	Ashlesh Khajbage	2023-03-31
12		Time Series Analysis	Yeshwanth bolikonda	2023-04-02
13		XRP Response to Sentiment	Swastika Pandit	2023-04-04
14		Price Performance	Deepti P	2023-04-07
15		which is better - Price Range or Exact	chandanapoloju	2023-04-07
16	ML Model development	Part-1: Reassess Project Goals	Ashlesh Khajbage	2023-04-07
17		part-2: Reassess Project Goals	Yeshwanth bolikonda	2023-04-07
18		Fit a ML Model	Ashlesh Khajbage	2023-04-10
19		Predictive Models With Deep Neural Nets	Deepti P	2023-04-13
20		NN - Training	chandanapoloju	2023-04-13
21		NN- Next-Day Price Prediction	Ashlesh Khajbage	2023-04-16
22		NN - Initial Model Performance	Yeshwanth bolikonda	2023-04-19
23		NN - Model Tuning & Evaluation	Ashlesh Khajbage	2023-04-23
24	Project Report & Presentation	Collect Plots	Swastika Pandit	2023-04-23
25		Write Theory & Conclusions	Ashlesh Khajbage	2023-04-23
26		Write Project Report	Deepti P	2023-04-28
27		Produce Final PPT	Deepti P	2023-04-28

Sr no	Blocked By (Dependencies)	Blocking (Dependencies)	Status
1			Complete
2		Custom Web Scraper	Complete
3	Data Acquisition	Data Cleaning and Preprocessing	In Progress
4	Custom Web Scraper	Sentiment Analysis,Text Preprocessing	In Progress
5	Data Cleaning and Preprocessing	Further Preprocessing	In Progress
6	Text Preprocessing	Sentiment Analysis	In Progress
7	Data Cleaning and Preprocessing,Further Preprocessing	Sentiment Aggregation,Sentiment Performance	
8	Sentiment Analysis	XRP Correlation Analysis	
9	Sentiment Analysis	XRP Correlation Analysis	
10			In Progress
11	Sentiment Performance,Sentiment Aggregation	Time Series Analysis	To Do
12	XRP Correlation Analysis	XRP Response to Sentiment	To Do
13	Time Series Analysis	Price Performance,which is better - Price Range or Exact Price	To Do
14	XRP Response to Sentiment		To Do
15	XRP Response to Sentiment	Fit a ML Model	To Do
16			To Do
17			To Do
18	which is better - Price Range or Exact Price		To Do
19			
20		NN- Next-Day Price Prediction	
21	NN - Training	NN - Initial Model Performance	To Do
22	NN- Next-Day Price Prediction	NN - Model Tuning & Evaluation	To Do
23	NN - Initial Model Performance		To Do
24			To Do
25			To Do
26			To Do
27			To Do