

Project Proposal Form MCST1043 Sem: 2 Session: 2024/25

SECTION A: Project Information.

Program Name:	Masters of Science (Data Science)
Subject Name:	Project 1 (MCST1043)
Student Name:	Sun Yihui
Metric Number:	MCS241024
Student Email & Phone:	sunyihui@graduate.utm.my
Project Title:	Sentiment Analysis of Ethereum (ETH) on Twitter: Insights from Social Media Trends
Supervisor 1:	
Supervisor 2 / Industry Advisor(if any):	

SECTION B: Project Proposal

Introduction:

Ethereum (ETH) is one of the most influential blockchain platforms in the cryptocurrency ecosystem. Given the significant influence of social media on market sentiment, Twitter, a highly active and real-time platform, offers rich data for comprehending public sentiment regarding ETH.

Problem Background:

The Social sentiment has an enormous impact on the erratic nature of cryptocurrency markets. Investors and traders frequently react to Ethereum-related trending hashtags, influence opinions, and Twitter conversations. However, it is challenging to measure the correlation between sentiment on social media platforms and changes in the price of ETH without a systematic analysis..

Problem Statement:

Focused, data-driven research that looks at how sentiment on Twitter affects Ethereum market trends is lacking. Researchers, traders, and investors can all benefit from an understanding of this relationship.

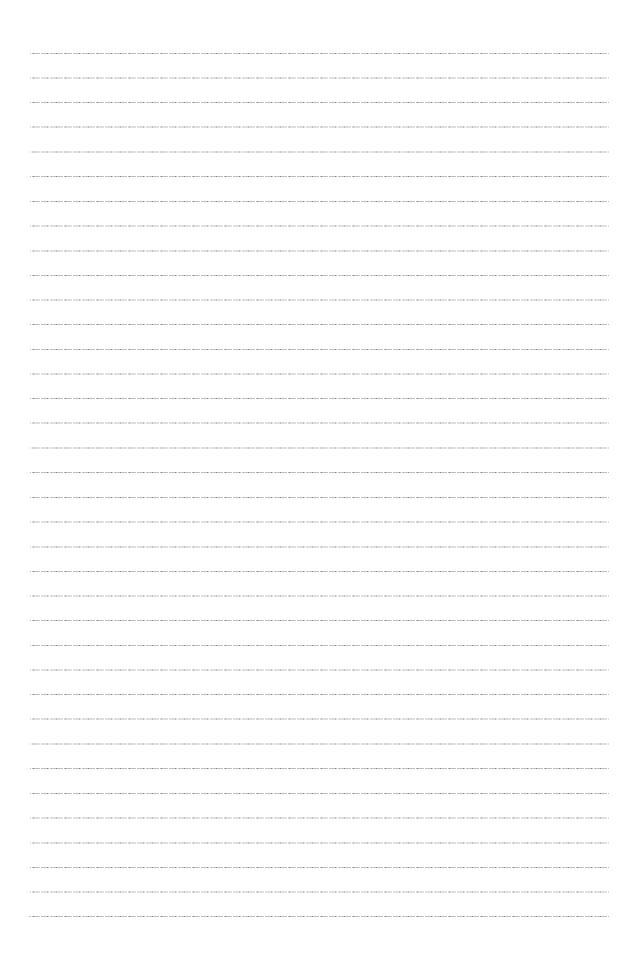
Aim of the Project:

To evaluate the sentiment of tweets about Ethereum in order to determine how social media sentiment and market performance are related.

Objectives of the Project:

 Compile tweets about Ethereum over a predetermined period of time. Use Natural Language Processing (NLP) tools to conduct sentiment analysis. Establish a correlation between sentiment scores and trading volumes and ETH price changes. Use easily comprehensible charts and graphs to visualize findings. Based on the analysis, offer practical insights and suggestions. 						
2. Classify sentiment :3. Timeframe: Three t	ereum-related data from Twitter. in English-language tweets. to six months of historical data, along with live data if feasible, were					
recommended. 4. Does not include al	tcoins or other social media sites like Reddit or Telegram.					
Expected Contrib	bution of the Project:					
2. Use social media tr	ow social sentiment affects the dynamics of Ethereum's price. ends to provide traders with predictive insights. framework for future cryptocurrency analysis.					
Project Requiren	nents: Python 、 Jupyter Notebook / Google Colab、 Twitter API v2、 Tableau or Power BI					
	Personal laptop or cloud computing resource					
	Data Collection Data Cleaning & Preprocessing NLP Sentiment					
Type of Project (Focusing						
Data Preparation and Modeling						
[] <u>D</u>	Pata Analysis and Visualization					

] Business	s Intelligence and Analytics			
[] Machine	e Learning and Prediction			
[Data Science Application in Business Domain				
Status of Project:					
1] New				
[] Continu	ned			
If continued, wh					
the previous t					
SECTION C: I declare that this					
	Myself	posed sy.			
[]		ndustry Advisor ()		
Student Name:					
Student Name:					
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		Acknowledgement			
The Supervisor(s) shall	l complete this se	ection.			
I/We agree to bec	ome the super	rvisor(s) for this student under	r aforesaid proposed title.		
Name of Supervis	or 1:				
Name of Supervis	or 1:	Signature	Date		
Name of Supervison		Signature	Date		
		Signature			
Name of Superviso	or 2 (if any):				
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Name of Evaluator 1:		
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Name of Evaluator 2:		
	Signature	Date