MCSD 6215 Project 1 Proposal Form.docx

by Cheng Yun MCS241014

Submission date: 30-Nov-2024 04:42AM (UTC-0800)

Submission ID: 2522001965

File name: MCSD_6215_Project_1_Proposal_Form.docx (59.85K)

Word count: 676 Character count: 3813



Project Proposal Form MCSD 6215

Sem:..... Session:.... SECTION A: Project Information. Program Name: Masters of Science (Data Science) Subject Name: Project 1 (MCSD 6215) Student Name: Cheng Yun Metric Number: MCS241014 Student Email & Phone: chengyun@graduate.utm.my +60147703792 Analysing and predicting the foreign exchange rate basing on the Chinese Yuan (CNY) and the Project Title: U.S. Dollar (USD) Supervisor 1: Supervisor 2 / Industry Advisor(if any): SECTION B: Project Proposal Introduction: Predicting future foreign exchange rate is quite significant for most transnational enterprises and even for domestic central bank. First of all, foreign exchange means currency exchange between different countries. There are many factors to affect foreign exchange rate such as inflation, interest, balance of payment, relevant risks and so on. However, CPI (inflation) is basic factor and won't influence FOREX (Foreign Exchange Rate) clearly under 10%(CPI). Interest is a major factor which affect it obviously. Basing on analysing history data from interest, CPI and balance of payment, including considering domestic risks and rate of national debt, it will make a predicable data model to forecast the future Forex situation. Problem Background: According to the 2022 financial report of Google and Apple, we can clearly find the fact: Google lost approximate 1.511 billion dollars and Apple lost 1.836 billion dollars because of foreign exchange. Additionally, speaking about Forex, you have to mention Argentina. Because of rapidly devaluing of Argentina Pesos (comparing with USD), Argentina's poverty rate has recently climbed significantly, reaching over 52.9% (25.7% in 2018) in the first half of 2024, roughly 25 million people. (report from UCA Social Debt Observatory)

em Statement: Normally, many people face the problem lacking valuable financial knowledge, rather than Forex market. A ful and efficient data predicting model benefit their interest. International businesses face Forex risk in nearly every transaction, which can decrease interest and increase
Normally, many people face the problem lacking valuable financial knowledge, rather than Forex market. A ful and efficient data predicting model benefit their interest.
Normally, many people face the problem lacking valuable financial knowledge, rather than Forex market. A ful and efficient data predicting model benefit their interest.
Normally, many people face the problem lacking valuable financial knowledge, rather than Forex market. A ful and efficient data predicting model benefit their interest.
Normally, many people face the problem lacking valuable financial knowledge, rather than Forex market. A ful and efficient data predicting model benefit their interest.
Normally, many people face the problem lacking valuable financial knowledge, rather than Forex market. A ful and efficient data predicting model benefit their interest.
Normally, many people face the problem lacking valuable financial knowledge, rather than Forex market. A ful and efficient data predicting model benefit their interest.
Normally, many people face the problem lacking valuable financial knowledge, rather than Forex market. A ful and efficient data predicting model benefit their interest.
Normally, many people face the problem lacking valuable financial knowledge, rather than Forex market. A ful and efficient data predicting model benefit their interest.
Normally, many people face the problem lacking valuable financial knowledge, rather than Forex market. A ful and efficient data predicting model benefit their interest.
Normally, many people face the problem lacking valuable financial knowledge, rather than Forex market. A ful and efficient data predicting model benefit their interest.
iul and efficient data predicting model benefit their interest.
International businesses face Forex risk in nearly every transaction, which can decrease interest and increase
ts if exchange rates shift unstably. This uncertainty leads companies to rely on hedging strategies, which can be
tly and complex. Developing improved methods for managing currency risk, especially for small and medium-sized
rprises , is a critical issue in maintaining global trade efficiency.
iprises , is a critical issue in maintaining global trade efficiency.
of the Project:
s project aim to build a CNY-USD Forex predicting model which can help Chinese people to address currency
s when they facing exchange foreign rate problem.
tives of the Project:
identify those data from Forex within decade years and collect these data by using data mining.
identify those data from Forex within decade years and collect these data by using data mining.
identify those data from Forex within decade years and collect these data by using data mining. establish a analysis model to address these data and find strong foreign exchange rate's relationship with factors,
identify those data from Forex within decade years and collect these data by using data mining.
identify those data from Forex within decade years and collect these data by using data mining. establish a analysis model to address these data and find strong foreign exchange rate's relationship with factors,
identify those data from Forex within decade years and collect these data by using data mining. establish a analysis model to address these data and find strong foreign exchange rate's relationship with factors,
identify those data from Forex within decade years and collect these data by using data mining. establish a analysis model to address these data and find strong foreign exchange rate's relationship with factors,
identify those data from Forex within decade years and collect these data by using data mining. establish a analysis model to address these data and find strong foreign exchange rate's relationship with factors,
identify those data from Forex within decade years and collect these data by using data mining. establish a analysis model to address these data and find strong foreign exchange rate's relationship with factors,
identify those data from Forex within decade years and collect these data by using data mining. establish a analysis model to address these data and find strong foreign exchange rate's relationship with factors,

Scopes of the Project: This project only involves the Forex changing data for the Project only involves the Forex changing data for the Project only involves the Forex changing data for the Project:	from between CNY and USD.
To ensure the accuracy of the analysis model, the pro-	oject will adopt data from 1970 to 2023.This large scale time will
significantly implement the success and stability of the	ie model.
This project will engage in Machine Learning to anal	yse the data and the result will be displayed by Power BI.
Expected Contribution of the Project:	
Project Requirements:	
Hardware:	
Technology/Technique/ Methodology/Algorithm:	
Type of Project (Focusing on Data Science):	
Data Preparation and Mode	ling
[] Data Analysis and Visualiza	ion
Business Intelligence and A	nalytics
Machine Learning and Pred	iction
Data Science Application in	
Status of Project:	
[] New	
[] Continued	

If continued, what is			
the previous title?			
SECTION C: Declaration I declare that this project is prop			
	oosed by.		
[] Myself	ndustry Advisor (\	
[] Supervisor/I	ndustry Advisor ()	
Student Name:			
Signature		Date	
SECTION D: Supervisor	Acknowledgement		
The Supervisor(s) shall complete this se	ection.		
I/We agree to become the super	rvisor(s) for this student u	ınder aforesaid proposed title.	
	.,	1 1	
Name of Supervisor 1:			
	Signature		Date
Name of Supervisor 2 (if any):			
. "			
	Signature		Date
SECTION E. Eltion	Danal Annuarial		
SECTION E: Evaluation			
The Evaluator(s) shall complete this sec	cuon.		
Result: [] FULL APPROVAL [] CONDITIONAL APPRO * Student has to submit new proposal for the student proposal for the		[] CONDITIONAL APPRO [] FAIL* comments.	OVAL (Major)*
Comments:			

Project1 Proposal Form MSc (Data Science)

2			
Name of Evaluator 1:			
	C:		D
	Signature		Date
Name of Evaluator 2:			
	Signature	***************************************	Date
	Signature		Date

Project1 Proposal Form MSc (Data Science)



MCSD 6215 Project 1 Proposal Form.docx

ORIGINALITY REPORT					
3%	3%	0%	2%		
SIMILARITY INDEX	INTERNET SOURCES	PUBLICATIONS	STUDENT PAPERS		
PRIMARY SOURCES					
1 www.coursehero.com Internet Source			2%		
2 www.scfhs.org.sa Internet Source			2%		

Exclude quotes

On

Exclude matches

Off

Exclude bibliography On