Identifying business value for using Machine Learning

Introduction

* What is machine Learning?

It is a way of teaching a computer how to solve problems by feeding it examples of the correct answers.

Ex: 1 You can predict how long it talces to travel from one location to another by feeding the computer enamples of the completed journeys.

- predicting weather patterns over the next few days.

Every enterprise organization has a mission.

Fromoting bussiness, attract more customers, improve customer satisfaction, Etc.). Machine learning should apply to improve the quality of those missions.

AI vs ML us Deep Learning

Artificial Intelligence (AI)

- * RAI refers to machines that are capable of acting autonomously essentially machines that think.
- * Machine Learning is a one branch of AI and one way to get a computer to solve a problem autonomously.

- * Deep Learning is a subset of Machine Learning and refers to a specific class of Machine Learning algorithms called neural networks.
- * Neural networks are used in many bussinesses tody today because they generally outperformed othe Machine learning algorithms. For tasks such as image classification and natural language processing, and the
- * Deep learning is a type of Machine Learning that works even when the data is unstructured (images, speech, video, and natural language tent).
- * Unstructure data don't eniot as tabular format

structured data

Credit card number	Gender	Age
428	mude	19
821	female	25
157	male	40

Important note is not every machine learning in algorithm is Deep Learning but over deep learning algorithm is

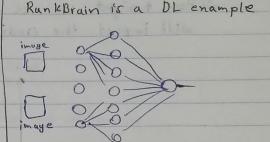
Enamples for above point

hungry?

yes no

have money? sleep

buy sleep



* Rank Brain is a neural network used by ghoogle search

* ML is a way to use standard algorithms to analyze data in order to derive predictive insights and make repeated decisions.

predictive insights enamples 1-: If you search "perera", There

can be different "perera"s. Mr need

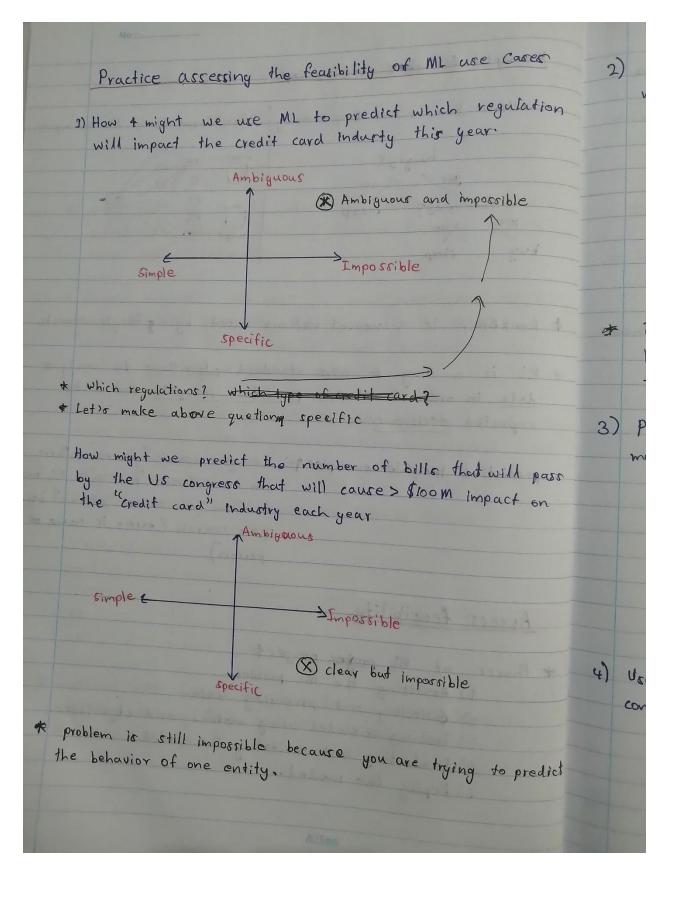
to show you correct "perera" by

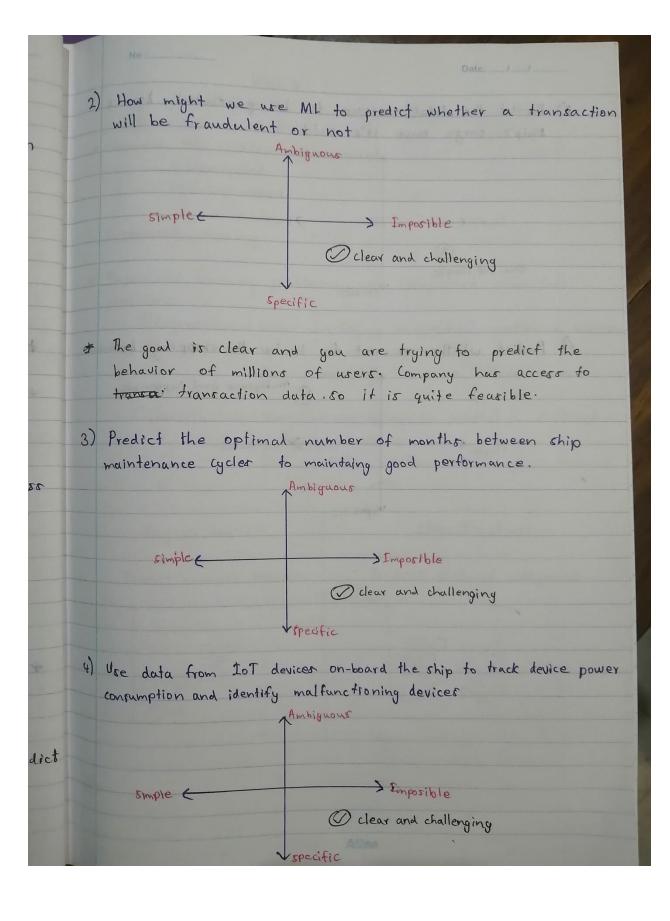
your search (perera is name of

person)

Assers feasibility

- * Phaser of ML project project
 - 1.) Assessing the ML problem.
 - 2) Gollecting and preparing data.
 - 3) Training a model using metrics and objectives.
 - 4) Evaluating and validating the model.
 - 5) Deploy the model.





5) Predict the total revenue to be generated by a ship's cargo once 14's sold. Ambiguous . > Impossible Simplet dear but simple Vspesific 6) Predict whether or not to be in the shipping business (x) Ambigous and impossible Simple < > impossible *specific