**Nguyen Huu Huan S3887111**

**Semester 2 - 2021**

[](file:///D:\Assignment%202%20-%20Our%20IT%20World\index.html)

## COSC2083

## Introduction To Information Technology

## Dr. Nguyen Minh Long

# Assignment 2: The IT World

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## Team Profile

### Team Name: Cool Nerds

### Personal Profile Reflection

## TypeFinder-Personality Test:

[See details](https://www.truity.com/sites/default/files/tfsamplereport.html#facetscores)

I am an IT enthusiast

## Myers-Briggs's Test:

[See details](https://www.16personalities.com/profiles/4709e309dea6f)

I am an IT enthusiast

## Learning Style Test:

[See details](https://personalitymax.com/report/?ls=69-56-62&name_key=4cd014b8d8)

I am an IT enthusiast

### Ideal Teammates Characteristics

* + Working Attitude: I would love to see my future teammate's eagerness to do work and I want him/her to always be active for social communication and work discussion. Moreover, IT is not just for genius coders who can implement all the complex functionalities, it is also for designers who can turn those abstract functionalities into user-friendly platforms. Therefore, I would want to have at least one teammate who is/are willing to try new design ideas and freely propose them to the group if the teammate thinks that will improve the User Experience.
  + Personality: An ideal teammate treats other group members with politeness, courtesy, and respect. He or she is expected to be an active listener and knowledge sharer who listens and shares his or her knowledge to other teammates whenever possible.
  + Skills: Since I am not confident in my writing skills, I want to have at least one teammate who are excellent at this skill.

## Tools

#### Link to the Website: <https://nguyen-huu-huan.github.io/Assignment-2---Our-IT-World/>

#### Link to the GitHub repository: <https://github.com/Nguyen-Huu-Huan/Assignment-2---Our-IT-World.git>

Your comments on how well the audit trail on the GitHub repository reflects your work (you will presumably only be able to do this close to the time of submission)

## Project Ideas

* Overview

I will use the abbreviation BITAI which is a combination of Bitcoin and AI to name the project. BITAI will center around building multiple machine learning models at a time to predict the upfalls and downfalls of bitcoin so as to plan out an effective investment strategy for our target customers (i.e., Bitcoin Investors). Each model has a score determined/calculated by several standardized metrics to help users choose the best available algorithm option. BITAI will initially be implemented using GUI as the main platform for users to interact. Users feedback in this initial phase helps us improve the quality of the project before scaling it up. When all the conditions are met, we scale it up to the web and then the cloud (if possible).

# CRYPTOCURRENCY

# ⇢    See Details    ⇠

* Motivation

Acknowledging the worldwide trends of Bitcoin with many "in-house" investors, I would like to be a part of them but using a different approach to get a higher chance of profitable investment.

* Description

The project is a GUI-based application that has many algorithms implemented for predicting the stock market. It will have a dashboard to feature which algorithm has the highest score using metrics from machine learning. Moreover, I would like to implement an algorithm to update and apply the world news to its investment strategy that will guarantee zero to little loss investment.

* Tools and Technologies

I will use C# (an object-oriented programming language) to create a GUI for BITAI. Afterwards, I will use Beautiful Soup to crawl data from the Bitcoin websites, feed these data to TensorFlow or Keras to work with the machine learning algorithms. During the algorithm building process, I want to leverage AI's power to work with world news (including innovations, politics, technological advance, etc.), turn these news into the algorithms' considerations so as to optimize the investment strategies before showing the prediction results. Although these tools require so many years of education, I still have a great passion for it due to its mesmerizing future picture.

* Skill required
  + Life-long learning: This skill is a mandatory requirement and a pivotal factor that determines the success of the project. Since technology are always changing, if the project only sticks with the old technologies, it will not be able to keep up with current situation.
  + TensorFlow: It is a programming language to code machine learning algorithms so skills and experience using this tool is required
  + C# or other tools for creating GUI application such as Python Tkinter, Python Pyqt, Java, and so forth are required to do this project.
  + Web programming: experience in this field would be nice for further scalability of the project. It is not required but a precious skill to have
* Outcome

If the project is successful with enough positive feedbacks from at least 10000 active users, it will be released to the general public using advertisements on various platforms including: YouTube, Google, Instagram, Twitter, etc. From there, if the project achieves more than 50000 active users, I will consider transitioning the project to a web-based service to help more and more Bitcoin investors. At this stage, the project will become a truly reliable investing pal to other investors around the world. Having access to an effective tool from our project, investors can now enjoy worry-free investments without losing all money like their traditional investing strategies. Speaking of positive impacts, this project will simultaneously guarantee users consistently profitable investments and exterminate all the risks of losing money that can leave negative consequences to the Bitcoin investors.

## Feedback

The following is the opinions and feedbacks of two students in the Introduction to IT course. The invited guests will elaborate on my project ideas and give their feedbacks regarding the feasibility, difficulty, scalability, and other aspects of the project

## Phan Quoc Thang

I am an IT enthusiast

## Chau Loan

I am an IT enthusiast

These feedbacks are very helpful for me in achieving my dream goal as they help me slightly adjusting my goal to fit with the current scenarios.

## IT Technologies

# Artificial intelligence and machine learning

Logo, company name

Description automatically generated

* What does it do?

**Artificial Intelligence** and **Machine Learning** are one of the greatest applications of Probability and Statistics.

* What is likely the impact?
* How will this affect you?

## IT Work

Our goal is to create an outstanding solution for B&B services around the world. We hope that our system can deliver the best experience to your - our dear clients with high security.

# Features

* [Management System](file:///D:\Assignment%202%20-%20Our%20IT%20World\index.html)
* [Dashboard](file:///D:\Assignment%202%20-%20Our%20IT%20World\index.html)
* [More.....](file:///D:\Assignment%202%20-%20Our%20IT%20World\index.html)

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