

**RE: Clarification of "doubling of project" for FYP.**

Subhajit DATTA &lt;subhajitd@smu.edu.sg&gt;

Fri 10/4/2019 7:14 PM

**To:** Justin CHOY Yu Min <justin.choy.2017@sis.smu.edu.sg>**Cc:** GUO Lingxing <lxguo.2017@sis.smu.edu.sg>; Jesslyn CHANG <jesslync.2017@sis.smu.edu.sg>; Tanny LAI <tanny.lai.2017@sis.smu.edu.sg>; TAN Jia Yun <jiayun.tan.2017@sis.smu.edu.sg>; CHUA Ming Yu <mingyu.chua.2017@sis.smu.edu.sg>; Subhajit DATTA <subhajitd@smu.edu.sg>

SMU Classification: Restricted

Dear Students,

You can continue to work on the project in IS483 (which you have already started in another course) if you can demonstrate in the IS483 project proposal that there is sufficiently new scope of work that will be addressed in the IS483 project.

Regards,

Subhajit

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Subhajit Datta, PhD

<https://www.smu.edu.sg/faculty/profile/159421/Subhajit-DATTA>

School of Information Systems

Singapore Management University

Room 5014, 80 Stamford Road, Singapore 178902

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**From:** Justin CHOY Yu Min <justin.choy.2017@sis.smu.edu.sg>**Sent:** Friday, 4 October 2019 8:46 AM**To:** Subhajit DATTA <subhajitd@smu.edu.sg>**Cc:** GUO Lingxing <lxguo.2017@sis.smu.edu.sg>; Jesslyn CHANG <jesslync.2017@sis.smu.edu.sg>; Tanny LAI <tanny.lai.2017@sis.smu.edu.sg>; TAN Jia Yun <jiayun.tan.2017@sis.smu.edu.sg>; CHUA Ming Yu <mingyu.chua.2017@sis.smu.edu.sg>; Subhajit DATTA <subhajitd@smu.edu.sg>**Subject:** RE: Clarification of "doubling of project" for FYP.

Noted prof.

Thank you for the swift update.

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**From:** Subhajit DATTA <subhajitd@smu.edu.sg>**Sent:** Friday, October 4, 2019 8:43 AM**To:** Justin CHOY Yu Min <justin.choy.2017@sis.smu.edu.sg>**Cc:** GUO Lingxing <lxguo.2017@sis.smu.edu.sg>; Jesslyn CHANG <jesslync.2017@sis.smu.edu.sg>; Tanny LAI <tanny.lai.2017@sis.smu.edu.sg>; TAN Jia Yun <jiayun.tan.2017@sis.smu.edu.sg>; CHUA Ming Yu <mingyu.chua.2017@sis.smu.edu.sg>; Subhajit DATTA <subhajitd@smu.edu.sg>**Subject:** RE: Clarification of "doubling of project" for FYP.

Dear Students,

I am waiting to hear back from some faculty members on this. I will get back to you as soon as I have the required information.

Regards,

Subhajit

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Subhajit Datta, Ph.D.

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**From:** Justin CHOY Yu Min <[justin.choy.2017@sis.smu.edu.sg](mailto:justin.choy.2017@sis.smu.edu.sg)>

**Sent:** Friday, 4 October 2019 8:33 AM

**To:** Subhajit DATTA <[subhajitd@smu.edu.sg](mailto:subhajitd@smu.edu.sg)>

**Cc:** GUO Lingxing <[lxguo.2017@sis.smu.edu.sg](mailto:lxguo.2017@sis.smu.edu.sg)>; Jesslyn CHANG <[jesslync.2017@sis.smu.edu.sg](mailto:jesslync.2017@sis.smu.edu.sg)>; Tanny LAI <[tanny.lai.2017@sis.smu.edu.sg](mailto:tanny.lai.2017@sis.smu.edu.sg)>; TAN Jia Yun <[jiayun.tan.2017@sis.smu.edu.sg](mailto:jiayun.tan.2017@sis.smu.edu.sg)>; CHUA Ming Yu <[mingyu.chua.2017@sis.smu.edu.sg](mailto:mingyu.chua.2017@sis.smu.edu.sg)>

**Subject:** RE: Clarification of "doubling of project" for FYP.

Hello Prof,

I'd like to check, is it possible to iron this out by today?

Our group wants to deep dive into exploring the ML project especially in recess week

And we would need to know if this overlaps so that we can decide to re-scope our project if needed.

We understand you are busy and appreciate your help.

Hope to hear from you soon.

Justin Choy

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**From:** Justin CHOY Yu Min

**Sent:** Monday, September 30, 2019 6:36 PM

**To:** Subhajit DATTA <[subhajitd@smu.edu.sg](mailto:subhajitd@smu.edu.sg)>

**Cc:** GUO Lingxing <[lxguo.2017@sis.smu.edu.sg](mailto:lxguo.2017@sis.smu.edu.sg)>; Jesslyn CHANG <[jesslync.2017@sis.smu.edu.sg](mailto:jesslync.2017@sis.smu.edu.sg)>; Tanny LAI <[tanny.lai.2017@sis.smu.edu.sg](mailto:tanny.lai.2017@sis.smu.edu.sg)>; TAN Jia Yun <[jiayun.tan.2017@sis.smu.edu.sg](mailto:jiayun.tan.2017@sis.smu.edu.sg)>; CHUA Ming Yu <[mingyu.chua.2017@sis.smu.edu.sg](mailto:mingyu.chua.2017@sis.smu.edu.sg)>

**Subject:** Clarification of "doubling of project" for FYP.

Hello Prof,

Thank you for the meeting earlier today. As discussed, we need to **urgently check if we happen to violate the IS 483 requirement** of "Application project must be done only once"

#### Students

- All project must be completed in teams.
- Application project will consist of students of group size 4 to 6.
- Research project will consist of students of group size 2 to 3.
- Application project must be done only once

(from IS 483 wiki)

Firstly, this is the **background** that led to us discovering this valuable opportunity to potentially do an FYP with NCCS. During the summer break, we had formed our FYP group and began sourcing for potential projects. In our initial meetings, we also discussed our interests and carefully diversified the modules we would bid for, in view of having the relevant skill sets to do a good FYP. From these meetings, we recognized that as BA track students, Machine Learning was critical to bring value in many IT Data driven solutions today. And so, 4 out of 6 in the group enrolled into IS 421, intro to machine learning with the objective to learn relevant skills to apply in our FYP. When the semester started, we continued sourcing for sponsors, and came across NCCS and their

problem statement. At this point of time we were also beginning to learn basic machine learning models for classification and prediction and had a strong realization of the potential in using Machine Learning to solve NCCS's problem statement. However, NCCS's data set is complex with many features (dimensionality), and we felt that it would be much better to get professional feedback on how to approach this Regression/classification model, so we consulted our IS 421 prof on it. After consultation, the professor gave us valuable feedback and also showed strong interest in us taking on this project as our IS421 learning project. From this point, we felt that it was a very good position to use this Machine learning module as a prototyping ground for the "project sourcing", and "Proposal" phase of IS 483.

However, we are also concerned if this will violate the requirements for IS 483.

Regarding this, there are **some fine details I want to lay out:**

1. Machine Learning Project is focused on evaluating the use of Algorithms to solve a problem, and largely gets us to use the concepts we learn to build our own models and compare them to what has already been done in this field.
2. For Machine Learning, it is just a short exploratory project in nature from week 7(proposal) to Week 12 (final submission), and we are definitely not able to just take this final product and reuse the whole thing for FYP.
3. The data from NCCS is very complex, and at the same time, the world of machine learning is a confusing jungle. Without this module and potential guidance on the topic, we would have a less clearer direction on what further improvements we need to focus on in terms of the model and its feasibility when FYP starts.
4. From our meeting with NCCS, they reasonably expect a interface and more user friendly outputs on top of our model. This is a large amount of work and is very different in nature to the focus of our Machine learning Project.
5. There will still need to be iterations of improvement of the model in FYP and we will still need to do more research on top of what we do in machine learning.
6. We also plan to work another key feature "survivability" in the FYP's model as much as possible/feasible. This is to really address the problem of helping patients and doctors do better decision making based on value.

**In essence**, based on the outputs of each module, IS421 and IS483, **they vary significantly and have different learning focus.**

We have also received suggestions from some instructors and professors who have suggested that it would be interesting for us to take this approach of doing exploration in IS 421, and then really implementing theory into practice in IS483 – with NCCS as the sponsor. We want to be upfront and honest so as to get clear feedback from you if we need to do anything to work this out, or if it really isn't any violation in the first place.

We hope to hear from you soon.

Regards,  
Justin Choy