Management Information Systems (MIS) – 37C00100 – Spring 2022

Assignment 3 (6 points) – **Data analytics, data science and AI**

In this assignment you will earn two Credly-badges after completing two 2-3 hour micro-credential courses provided free by IBM Global University Programs to students belonging to IBM Academic program via their university. Although the context in the courses is healthcare data, the learnings apply to other areas too.

Note: based on tests the animated pictures in the course material worked more fluently with Edge than with Firefox (when using Windows computer) – try changing the browser in case you encounter any UI issues.
*Also, **if you are having problems with IBM sign-in cookies** when trying to log in or register, use the incognito (private) mode of the browser, or try another browser than you used before.*

Improving Healthcare: The Role of Data Analytics and Data Science
The student completing this course will have demonstrated knowledge and understanding of the foundation of data science in healthcare including the following: the data explosion, key definitions and how healthcare is a Big Data repository, use cases in healthcare, and how Big Data integrates with new and emerging technologies.
Improving Healthcare: The Role of Artificial Intelligence (AI)
The student completing this course will have demonstrated knowledge and understanding of an overview of AI in healthcare through use cases and understanding the benefits, barriers to adoption, challenges to implementation, and the role of ethics in AI.

Instructions:
Go to https://ibm.com/academic/docs and register first to the IBM Academic Initiative with aalto email, that is, follow the step-by step instructions on the page under:
General - **How to register with the IBM Academic Initiative**)
Note that you don't need to register to the IBM Badge program for the MIS course purposes.
At the end of the process, you are instructed to **create an IBMid**, in case you don't have that already linked to your aalto email. Return & log in to the academic initiative page https://www.ibm.com/academic/home

Go next to address: https://ibm.biz/ds-in-healthcare
Click **Take this course** on the pop-up that opens (configure your browser's pop-up settings, if needed)
*(**OR**, if you are not logged in to Academic pages, click '**Register or login to access this resource**' in the opening pop-up, and input your aalto-email. **Log in with your IBM ID** or Create an IBMid first, if you have not made it before. Proceed to the first course (The role of data analytics & data science) by clicking the blue arrow in the box (see pic) and selecting next **Take the course**.)*

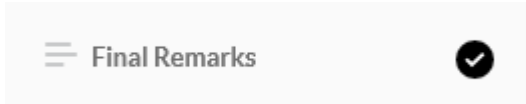Improving Healthcare: The Role of Data Analytics & Data Science

This course provides a basic understanding of the role of analytics and data science in healthcare.

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Click **Start** (or **Refresh** and then **launch** in case you have paused and continue the studying again).

Follow the instructions and proceed topic-by-topic. Answer the reflection and/or matching exercises at the end of each topic. After the summary, **take the final course quiz – you should receive at least 80%** of the points to pass the micro course.

Once you have completed all parts AND <u>scrolled all the way down at the page Final Remarks to get the <mark>v</mark> mark on the right of it</u> (see pic below),

you should automatically be awarded a badge by Credly.com.
However, you need to accept the badge first via email, and create a Credly ID. The process may take a while – check also your junk email folder in case you can't find the email.

<mark>Repeat the same with the **Role of AI** course, by starting here: https://ibm.biz/ai-in-healthcare</mark>

For reporting your assignment, log in to https://www.credly.com , click the account picture icon on the top-right corner, select 'View profile', and click 'Share my profile' to copy the URL to clipboard (it should be in the form: https://www.credly.com/users/johanna-bragge but with our own name). Paste your profile URL to the assignment submission box.

Note that it might take 1-2 hours before you receive the badges to your Credly account: you are allowed to submit this assignment 3 hours late without penalty. Possible point deductions will be made afterwards in this submission box, as the 6 points are granted automatically after submitting the URL.

The badges you earn by completing the two courses:

2 badges

Improving Healthcare: The Role of Data Analytics and Data Science
IBM

Improving Healthcare: The Role of Artificial Intelligence (AI)
IBM

INSTRUCTIONS FOR RETURNING THE ASSIGNMENT

Return the assignment to MyCourses – Assignments **by 18.3. at 12.00** (noon).

- o   Note that -1 point is deducted from every late 24 hours of return.