

Vak: Data Science for Personal Health 1

credits: 5

Vakcode BFVM22DSPH1
Naam Data Science for Personal Health 1
Studiejaar 2022-2023
ECTS credits 5
Taal Engels
Coördinator M. Herber

Werkvormen Hoorcollege
Toetsen TOETS-01 - Overige toetsing

Leeruitkomsten

The student can

- implement an advanced web based visualisation.
- design a useable interface to answer a research question.
- implement appropriate data(base) technologies given data sources.
- translate design into a project approach and valuable IT solution.
- collaborate with team members to organise the work involved.

Inhoud

The project is a visualisation of a person's health data in order to answer health-related questions. Students are asked to define their own health related research question and combine these questions into one design per group. In addition, data needs to be gathered by wearables, mobile devices and other available resources. Students are stimulated to use software interfaces and communication protocols to acquire data from digital data resources.

The visualisation means is through web technologies: Javascript, CSS, SVG and the appropriate libraries (jQuery, D3.js and Processing). The student applies basic data transformation / munging in order to prepare the data for visualisation. The project has a cumulative design strategy where a simple prototype with a simple data structure is succeeded by more sophisticated iterations on the same theme. Feedback sessions with field experts are organized to improve the prototype towards a valuable IT solution.

Context learning line

The kick-off project of the master aims to first of all develop a student's understanding of the Data Science field and Personalised Health. A secondary aim of the project is to reinforce the concepts learned in previous programming courses. Finally, good UI design principles are taught, and the student iterates on a design to answer the defined research question. Feedback sessions in which external expert reflect on the design will enhance entrepreneurial skills.

Opgenomen in opleiding(en)

Master Data Sciences for the Life Science

School(s)

Instituut voor Life Science & Technology

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