Master/Bachelor Thesis

Impacts of Visualization Techniques on Cyberchondria and Motivation of Pregnant Women in a Digital Maternity Record Application

Task: Conduct a user study comparing different visualization techniques of biomedical data (e.g. heart rate, blood pressure, biomarkers,…) and investigate the impact of these on user motivation and Cyberchondria.

This thesis will be conducted within the SMART Start project (smartstart.fau.de), in collaboration with the Women's Hospital of University Clinic Erlangen.

You will program several visualization prototypes, and evaluate their impact on user motivation and Cyberchondria. The prototypes will be added and integrated into our SMART Start study app. This is why you need good web development skills, especially frontend-sided.

This is a follow-up thesis to Dominik Happel's Work „A Wearable-Data Enhanced Digital Maternity Log Including Cyberchondria-Aware User Interaction Concepts".

Must-Haves:

- At least good knowledge in web development, with a focus on frontend development (HTML, CSS, JavaScript – esp. React, NodeJS, MySQL)
- Basic design experience and skills

Ideally:

- Basic statistical knowledge
- Previous experience in UX Design and User Experience

Contact:

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Please include information about your previous experience in web development, CV and transcript of records in all applications.