

PARKSIDE The UX success factor in the use of artificial intelligence

Artificial intelligence (AI) holds enormous potential for automation, for the creation of new products and services, for increasing efficiency and for data processing. However, AI can also create a sense of scepticism and discomfort among users or patients, especially when used in the human technology sector. In addition to the technical challenges, human-system interaction is also an important success factor in the use of AI, because it does not replace the individual, but rather interacts with the users and supports them in their daily work. Even in highly automated processes, the human being is the ultimate controller, and so it is crucial to also address the psychological aspects of this interaction. Especially in the environment of medical devices, a sufficient risk analysis and subsequent usability tests are of crucial importance, as even the smallest uncertainties and errors in use can have serious consequences for patients.

To ensure that AI-based applications are also used profitably, it is crucial to involve UX (user experience) and UI (user interface) designers in the development process in addition to data scientists and engineers. They ensure that the human factor is taken into account and that technically perfect solutions also achieve the necessary usability and acceptance.

In AI applications, the UX focuses on the following topics, among others:

- » the motivation of the user to use an AI-based tool
- » the trust in the results of the AI, the data security and its explicability and comprehensibility
- » the user's expectation management of the AI application and
- » a well thought-out interaction according to common UX criteria, which offers the AI application the possibility to learn.

Learn more about the most important focus areas for UX in artificial intelligence systems at: www.parkside.at/ux4ai

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Artificial intelligence as an ethical challenge

to the general public. How AI works, ded at all levels, starting with the initial what potentials and possible dangers it harbours, and how to deal with it in a the developments (ethics-by-design) meaningful way, are not so well unders- and companies, all the way to concrete tood. People's emotional reactions to AI applications and political regulations. include everything from flat-out rejection to massive existential fears to ideas of tudes must be incorporated into perparadise. A similar spectrum of attitudes is evident even among experts. To arrive at a sense of how we as a society want to higher authorities. Each individual has handle the use of AI, and what measures to take responsibility for their own ac- AI in a 'humanshould be taken, we need to consider tions. Transparency is a key tool here, and application.

tentials, but also the risks and dangers at all levels, especially among decisionmakers. These include, as basic principles, autonomy, non-harm, "do good"/ welfare, and justice/fairness. Other norgroups that are particularly worthy of protection, clearly regulate the distribution of power and information, and thus of privacy (confidentiality, integrity) and security, but above all transparency and explainability and the necessity of stakeholder analyses. In case of conflict, it is Private lecturer at the University of always necessary to justify which principles and values are to be rated higher than others. Not all of these orientations

can always be realized at the same time.

AI, at least as a buzzword, is well known However, an ethical framework is neeideas and extending to the developers, Sensitization and adequate value attisonal behaviour everywhere and must not simply be delegated to clients or to and discuss the ethics of its development enabling us to accompany developments with critical reflection at an early stage and to stimulate a social discourse ab-Ethics is primarily concerned with the out what we want and what is better not question of what is good and with the to do. Since not every end justifies the evaluation of actions and decisions as to means, it must also be possible to forego whether they are good or bad. The po- certain opportunities in order to safeguard fundamental values and principles. of AI require us to be clear about what This requires impact assessments, cleis good and right for us. There are now a arly defined areas of application, small number of proposals to establish ethical implementation steps, sufficient safety orientation principles in dealing with AI nets, permanent evaluations and clear responsibilities in order to construct future AI in a "human-compatible" and "human-sensitive" way.

mative orientations would be to protect At the moment it is hardly possible to predict where the development of future AI systems will lead. But we can develop our ethical discussions now and by prealso create clear responsibilities. Issues paring the relevant ethical principles, we that need answers are social impacts, can be ready to exploit these potentials prohibition of discrimination and pre- in a way that we want to without having servation of diversity, special protection to suffer the worst of the risks. What matters is that we can only do this together.

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ethicist

"We need to construct future compatible' and 'human-sensitive' wav"

Andreas Klein

