

Artificial Intelligence for Healthcare applications – Mapping out opportunities and challenges

Healthcare is facing great challenges, many of which are caused by a growing and ageing population. This has led to a growing demand for care, increased public spending and staffing difficulties. The streamlining of processes and reduction of costs have therefore become urgent goals. Artificial intelligence (AI) offers tools which can aid in these tasks by assisting health professionals in their work. AI tools are making their way into clinical practice in Sweden and internationally. However, the uptake has not been even and not as quick as expected.

In this thesis proposal the aim is to study and map out both opportunities as well as challenges with AI implementation in healthcare by performing e.g. literature surveys and interviewing stakeholders, clinicians and researchers at Sahlgrenska University Hospital. The thesis results could form basis for, e.g. suggesting ways forward for the healthcare sector as well as basis for building a successful AI strategy.

The successful student(s) should have a technical or organisational background with an interest in healthcare. A distinct advantage would be knowledge of applied AI.

This thesis will be conducted at Sahlgrenska University Hospital as a joint master thesis project between STS at Chalmers Department for TME and Centre for Digital Health at Sahlgrenska University Hospital. For enquiries please contact Magnus Kjellberg (076-1141771, magnus.kjellberg@vgregion.se).