\section{Aim}

This thesis aims to improve the interpretability of the ML models used in the Medalai web platform at different levels in order to widen and give more credibility to the use of ML models for e-POCT data, then to use these methods as well as comparison to state-of-the-art models to validate the Medalai platform models and their clinical interpretation.

\section{Objectives}

\begin{itemize}

\item Investigate interpretability methods in the field of ML applied to medicine and other available tools and demonstrate the need for improvement in that domain.

\item Improve interpretability of the platform results through visualization techniques, understand the clinicians’ requirements for interpretability of data, models and results. This includes discussing with clinicians and demonstrating the platform to clinicians in order to fully understand if the methods brought forward are useful.

\item Validate the platform models’ results

\end{itemize}