Did you know medical errors result in costs of over $19.5 billion\(^1\) in the USA alone and have equally devastating impacts worldwide? These errors cause significant patient suffering and are often related to the use of medical devices. With about two million\(^2\) types of medical devices in use today - from simple scalpels to complex MRI scanners - the scope of the problem is vast.

We at inforMD AI, a startup based at the Founders Loft co-working community on the Chalmers campus, are committed to combatting this global issue. We aim to reduce medical errors by equipping medical professionals with the vital information they need to know about the devices they use to be able to deliver the best possible care.

Our solution uses Large Language Models to analyze the extensive data available on adverse events related to medical devices and provide concise and accurate summaries via a user-friendly web app.

Now, we are inviting one or two master's thesis students to join us in this challenge. We propose a project to investigate how retrieval-augmented generation (grounding AI in external information), prompt chaining (breaking down complex tasks into multiple steps), and other large language model technologies can be used to ensure the accuracy of the application's output and minimize the risk of “AI hallucinations”.

This project offers you a unique opportunity to apply your skills in a real-world setting while at the same time contributing to a meaningful initiative.

Interested? We'd Love to Hear from You!

For more details, please get in touch with Johan Gustafsson (lead developer and co-founder) at johan@informd.se

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\( ^1 \) [https://www.soa.org/globalassets/assets/files/research/projects/research-econ-measurement.pdf](https://www.soa.org/globalassets/assets/files/research/projects/research-econ-measurement.pdf)

\(^2\) [https://www.who.int/health-topics/medical-devices](https://www.who.int/health-topics/medical-devices)