

Two Master's thesis students in machine learning and signal processing for a life science startup at Ideon

Background

Trackpaw Scientific AB was founded by biomedical scientist Liza Tchapanova in 2022, based on an idea that came about during a post graduate course at Lund University two years earlier. In short, the idea is to provide life science companies with a platform to monitor research animals 24/7. The product consists of two parts; a platform equipped with sensors to record the animal activity, and a cloud solution to perform statistical analysis on the collected data.

Task

To get the statistical analysis right, it is important to keep track of the research animals as well as being able to separate between different animal behaviors. While the objective when it comes to keeping track of the animals is straight-forward, the range of different animal behaviors that can be detected from the dataset is more of an open-ended question. The former project is suitable for a student with a combined interest in machine learning and signal processing, while the latter is for a student who want to deep dive in machine learning, statistical analysis and pattern recognition.

You will have a supervisor at Lund University, and at the company you will be working in close cooperation with Trackpaw's CTO and second employee. We are located at the Ideon Innovation startup hub (building Ideon Alfa). We are aspiring to recruit a junior AI developer in 2023. In case of subsequent employment, the focus will still be on AI. Since we are a small company there will also be elements of everything from programming close to the hardware domain to creating graphical user interfaces or designing cloud solutions.

Starting date

The thesis can start in the beginning of February 2023.

Profile

- Strong background in machine learning and statistical analysis
- Interest in life science and working for a startup
- Programming experience from course work or prior employment

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