

To strengthen our team in the Institute for Information Systems in Saarbrücken, we are looking for a

Research Assistant (10 hrs/week)

Project ErgoFee – AI-driven Ergonomics Recommendations in Nursing Care

ErgoFee develops AI-based systems for promoting ergonomic work practices in nursing care. Using the sensor-based FlexTail technology by Minktec, the project captures body postures and movement patterns, enabling process-based activity recognition. From this data, personalized recommendations are generated to help nursing staff perform physically demanding tasks in a more ergonomic manner, reducing musculoskeletal strain and occupational health risks in the long term.

Your tasks:

- Support in processing and analyzing sensor data from the FlexTail system
- Implementation and evaluation of algorithms for process-based activity recognition
- Research on machine learning methods for motion and activity recognition
- Development and testing of ergonomics recommendation modules and user study support

Your qualifications:

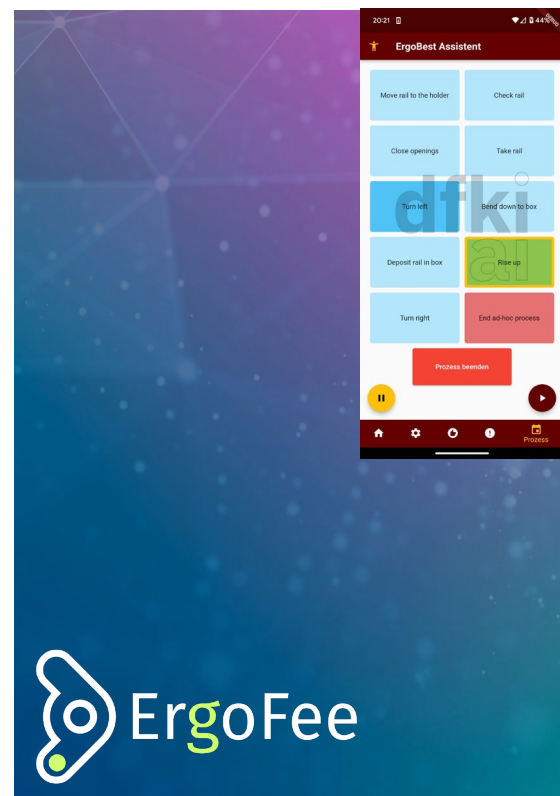
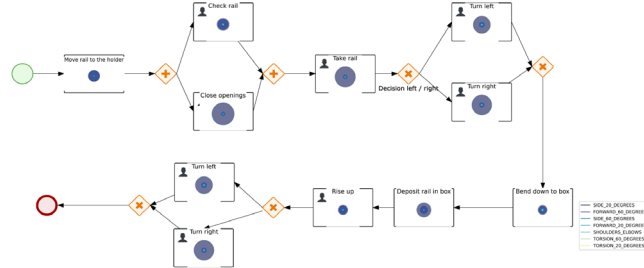
- Enrolled in Computer Science, Data Science, Cognitive Science, or a related degree
- Solid programming skills in Python; experience with NumPy, Pandas, or scikit-learn is a plus
- Interest in machine learning, sensor data, human-computer interaction, or digital health

Your benefits:

- Work with cutting-edge AI research at the intersection of machine learning, ergonomics, and digital health
- Flexible working hours (10 hrs/week) compatible with your study schedule
- Close mentoring by experienced researchers; possibility to pursue a thesis within the project

Please send your CV, transcript, and a brief motivation statement to alessa.wein@dfki.de and andreas.emrich@dfki.de (subject: Application ErgoFee – [Your Name]).

<http://jobs.dfki.de>



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The German Research Center for Artificial Intelligence (DFKI) has operated as a non-profit, Public-Private-Partnership (PPP) since 1988. DFKI combines scientific excellence and commercially-oriented value creation with social awareness and is recognized as a major "Center of Excellence" by the international scientific community. In the field of artificial intelligence, DFKI has focused on the goal of human-centric AI for more than 35 years. Research is committed to essential, future-oriented areas of application and socially relevant topics.

DFKI encourages applications from people with disability; DFKI intends to increase the proportion of female employees in the field of science and encourages women to apply for this position.