



Karevo

Dive into the World of
Automation in Agriculture!

IDP

AI based Computer Vision in Agriculture

Further Development of AI-Driven Potato Sorting System



Our mission

We specialize in creating affordable, retrofittable potato sorting systems. Our core mission? Empowering farmers with state-of-the-art AI. With our solution we want to reduce their workload, save labor costs and allow them to focus more on the product and their personal life. We're initiating our journey with small to medium scale potato farmers as our primary market, setting the stage for further affordable automation innovations in agriculture.

(Potential) Work Packages

- **Improving detection of potato defects:** Enhance our hybrid system that combines "traditional" image processing methods and AI for improved accuracy, computational efficiency (edge computing on a RTX4090) and robustness.
- **Connectivity:** Design and implement a connectivity module for our machine that supports remote access for monitoring and control
- **Smart Farming Integration:** Enable integration of our system into existing agricultural systems, ensuring secure data transmission and storage
- **UI/UX Design:** Further improve our interface for farmers with minimal technical expertise, focus on intuitive design and ease of use

Tools we use: Python, React/Typescript, FastAPI, Linux, Poetry, openCV, Docker, AWS S3



Start-up culture

Team events, agile work style, flat hierachies, flexible working hours, motivated team



Real world impact

You will help develop affordable machines for farmers, reducing their workload and improve food security



Ownership

You get responsibility for your task and are the first contact person for that.



Office and Makerspace

We have our office space in the TUM Venture Lab in Freising with direct access to a makerspace and colab

Contact



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