Tool Detective

Claim: We automate the cutting tool measuring process using AI for image analysis.

The Project

Tool Detective provides users with tooling to generate value from image data. Possible tasks are image classification, object detection and area segmentation. The customer is enabled to upload image data, manually label it according to the task and have an expert train an AI model in the background.
A User Interface enables utilizing the model for human operators. An API allows Machine to Machine communication for automated decision making based on the image analysis.

The first usecase addressed in the project is cutting tool wear detection on microscopic images of cutting tool edges used in manufacturing. This usecase is selected because of the industrial network of IPT and the member background.

The Team

Location: We are based in Aachen. Our cooperating Fraunhofer Institute is the IPT.

Members: Yuri Winche Achermann (Project Management, Coding)
Carsten Holst (Project Lead, Communication, Scripting)
Patrick Schwemmer (Head of AI)

AHEAD Infos **Batch:** #3 2022   **Phase:** 2   **Track:** Spin Off

The Business Model

Unique Selling Proposition: Focus on UX. Free to use app with payment options for intense use and M2M automation.

Unfair Advantage: First Mover Advantage, Network, Valuable Data

Revenue Model: SaaS: Pay-per-use | Subscription

Venture Readiness Level

VRL	Ideation	Incubation	Traction	Growth

Technology Readiness Level

TRL	1	2	3	4	5	6	7	8	9

The Side Facts

Customer Focus: B2B

Searching For: Hardware Engineer, Full Stack Web Developer, Investors, Customers

Industry Tags: #Machining, #CuttingTools

Technology Tags: #AI, #NeuralNetwork, #DeepLearning, #ComputerVision