Magnus B. Landwehr

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Work Experience

10/2021 – today	**Internship at Munich Re, Munich** Support in building and structuring a database of risks and claims for global business units within the area of cyber-insurance; Syntactic and semantic text analysis of corporate data leaks available on the dark web to assess the cyber security posture and resilience of various companies with respect to cyber-attacks
10/2020 – 09/2021	**Research Assistant at KSRI, Karlsruhe** Assisting in the research group "Applied AI" primarily on Computer Vision related development & research; from cleaning and analyzing input-data with confident learning techniques and inter-labeler reliability inspections, over hyperparameter tuning, to building a tool for better model-performance inspection with plotly dash
06/2020 – 07/2020	**Internship at the municipality Schorndorf, Schorndorf** Programming a relational database for the IT-hardware-inventory
06/2018 – 01/2020	**Working Student at Siemens AG, Karlsruhe** Creation of a functional prototype of an information display and the training of future users of the info display; Development, maintenance and modification of web applications for Global Siemens IT, in the area of Digital Engagement Service

Education

10/2022 – today	**Master of Science** Karlsruhe Institute of Technology, Karlsruhe Industrial Engineering and Management
11/2020 – 03/2021	**Bachelor Thesis at WBK, Karlsruhe** Development of a functional instance segmentation model for metal surface damage detection with a Mask R-CNN architecture from the Tensorflow Object Detection API
10/2017 – 09/2021	**Bachelor of Science** Karlsruhe Institute of Technology, Karlsruhe Industrial Engineering and Management
09/2008 – 07/2016	**Higher Education Entrance Qualification** Max-Planck-Gymnasium, Schorndorf

Publications

03/2021	**Industrial Machine Tool Component Surface Defect Dataset**
	Tobias Schlagenhauf, Magnus Landwehr, Juergen Fleischer
	Data in Brief, under revision

International Experience

04/2017 – 08/2017	**International Experience Canada**
	Participant of the governmental "Working-Holiday" program
	Working at Fraserway RV Rentals, department Customer Service

Extra-Curricular Activities

03/2020 – 05/2022	**linkit**
	Head of human resource at the university group linkit with over 100 active members;
	participant on several intern (kaggle) challenges in regression, computer vision and natural language processing
01/2018 – 03/2020	**Bicycle Workshop**
	Helping students repairing their bicycles

Languages

German	Mother tongue
English	Business fluent

Additional Skills

Proficient in MS Office 365 Suite

Knowledge in the following programming languages:

- ○○◉ Java
- ○◉◉ JavaScript, HTML5, CSS
- ◉◉◉ Python (Packages: Tensorflow, Keras, OpenCV, Pillow, nltk, Sklearn)
- ○◉◉ R
- ○○◉ VBA
- ○○◉ SQL

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