Curriculum Vitae

Personal information

Name: Markus Knauer

Nationality: German

Munich, Germany

Google Scholar

github/MarkusKnauer

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Education

Since 11/2020 Doctoral candidate/**Ph.D.** (Dr. rer. nat.) in **Computer Science**,

Major: **Machine Learning**, Artificial Intelligence, TUM School of Computation, Information and Technology (CIT), Technical

University of Munich (TUM), Germany.

10/2018 – 09/2020 Master of Science in Computer Science, Kempten University of

Applied Sciences. Major: Data Science, Germany.

Best in class, GPA 4.0.

02/2018 – 07/2018 **Semester abroad**, Diploma,

University of the Sunshine Coast (USC), Australia.

Major: Data Science, IT, International Business

10/2014 – 07/2018 **Bachelor** of Science in Information Systems, Kempten University

of Applied Sciences, Germany.

Best in class, GPA 4.0.

Work experiences

since 11/2020

Research Scientist, German Aerospace Center (DLR), Institute of Robotics and Mechatronics, Department: Cognitive Robotics, Oberpfaffenhofen, Germany.

Topics: **Probabilistic Machine Learning** for Robots,

Foundational Models, Incremental Learning Since 2023: **PhD Speaker** for the whole Institute.

since 10/2024	Teaching Assistant for Machine Learning , CIT, Technical University of Munich (TUM), Germany.
11/2019 – 08/2020	Working student , German Aerospace Center (DLR), Institut of Robotics and Mechatronics, Department: Perception and Cognition, Oberpfaffenhofen. Germany.
	Topics: Deep Learning, Neural network architectures, Computer vision, Online Learning.
10/2018 – 10/2019	Research Associate , Digital Lab – Research Centre Allgäu, Kempten im Allgäu, Germany.
-	Topics: Machine learning for industry, Connectivity, IoT, iOS applications.
08/2017 – 01/2018	Student Research Assistant (Bachelor) at Robert Bosch GmbH, Immenstadt im Allgäu, Germany.
-	Development of a real-time application for online visualization of machine states in production lines as part of the "Industry 4.0" system architecture.
12/2015 – 09/2017	Student Assistant / Tutor , Kempten University of Applied Sciences, Germany.
-	Creation and revision of lecture and exercise contents with Prof. Dr. Stefan Wind (Business Intelligence, Databases, web-based Business Models, E-Business). Tutor for Business Intelligence.
09/2016 – 02/2017	Working student , Endress+Hauser Wetzer GmbH + Co. KG, Nesselwang, Germany.
	Topics: IT-Project-Management of the international project, Business Analysis using SAP, SAP Fiori and SAP GuiXT Edit software rollout.
02/2014 – 09/2014	Industrial Clerk , Sensor-Technik Wiedemann GmbH, Kaufbeuren, Germany.
-	Topics: General HR work like application administration, payroll management, people management, HR software rollout
09/2011 – 01/2014	Industrial Clerk Trainee , Sensor- Technik Wiedemann GmbH, Kaufbeuren, Germany.
	Topics: HR, Controlling, Sales, Management, Logistics, QM, etc. Graduated with GPA 4.0.

Publications

