## Benedikt Kantz, BSc.

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## **EDUCATION**

Technical University, Austria (ongoing)Master's Degree Programme Computer ScienceTechnical University, AustriaBachelor's Degree Programme Information and Computer EngineeringHTL Mössingerstraße, Austriahigher technical education institute for technical informatics and electronics		Sep 2019 - Oct 2024 (expected) Sep 2019 - Aug 2022 Sep 2013 - Apr 2018			
			KILLS		
			Languages: Programming: Software & Tools:	German, English Python, C++, JavaScript, Java, C# <b>Backend:</b> NodeJS, Java <b>Frontend:</b> VueJS, React, three.js, D3js <b>Others:</b> Embedded systems, OpenGL, CUDA	
ORK EXPERIENCE					
Teaching Assistant <ul> <li>creating &amp; assess</li> <li>teaching practica</li> <li>lab assistant: teac</li> <li>preparing framew</li> <li>Assisted lectures: <ul> <li>Fundamenta</li> <li>Object-orien</li> <li>Computer gr</li> <li>System level</li> <li>Deep Learni</li> <li>Operating sy</li> <li>Machine Lea</li> </ul> </li> <li>German Aerospace Content</li> <li>integration of geo</li> <li>search using nature</li> </ul>	Is of Electrical Engineering – practical & laboratory ted programming 2 – design practical aphics 1 & 2 – practical programming – practical ng – practical stems – practical arming 2 – design practical <b>enter (DLR), Germany</b> the research project OpenSearch@DLR ospatial data into a graph database ral language & graph exploration	Oct 2020 - Jun 2024 July 2022 - Aug 2022			
Alturos Destinations, Junior Software Engine – development of f – architecture & im – real-time video st		July 2021 - Aug 2021 May 2020 - Sep 2020 Okt 2018 - Sep 2019 QL			
University of Klagenf Internship – development of V – Unity-game deve	'R-applications	July 2017			

## hs2n, Austria

- development of IT-Management Software using C#
- network diagnostics

## **PROJECTS & RESEARCH EXPERIENCE**

Explainable Artificial Intelligence and Uncertainty Attribution in Industrial Process Modelling	2024
<ul> <li>masters thesis, in cooperation with voestalpine Stahl GmbH</li> <li>utilizing XAI and the uncertainty propagation formula to estimate input uncertainties</li> <li>derivation of a novel uncertainty attribution framework: Smoothness Constrained Attribution (SCA)</li> <li>synthetic &amp; practical evaluation of XAI methods</li> </ul>	
<ul> <li>Real-time high resolution image stitching on embedded systems</li> <li>bachelors thesis, in cooperation with Alturos Destinations <ul> <li>building tooling for stitching at high framerates on NVIDIA embedded systems</li> <li>developing a framework for wide range of applications</li> <li>enabling easy access (Python) to hardware (GPU, cameras)</li> </ul> </li> </ul>	2020 & 2021
<ul> <li>365 days of rewind</li> <li>personal project <ul> <li>a full-stack application recording the listening history of users</li> <li>enables an overview of the most listened music and artists</li> <li>based on NodeJS, GraphQL and VueJS</li> </ul> </li> </ul>	2021
PUBLICATIONS	
Input Uncertainty Attribution by Uncertainty Propagation ICASSP 2025 (Under Review): Benedikt Kantz, Sophie Steger, Clemens Staudinger, Christoph Feilmayr, Johann Wachlmayr, Alexander Haberl, Stefan Schuster, Franz Pernkopf	2024
<b>Robustness of Explainable Artificial Intelligence in Industrial Process Modelling</b> ICML Workshop ML4LMS 2024 (Poster): Benedikt Kantz, Clemens Staudinger, Christoph Feilmayr, Johannes Wachlmayr, Alexander Haberl, Stefan Schuster, Franz Pernkopf	2024