

Leela Kondamadugula

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Work Experience

Software Developer AI Department	Agile Robots Munich, Germany	Oct 2021–Present
<ul style="list-style-type: none">Designed and implemented software wrappers and APIs on top of hardware SDKs to enable internal tools and robotic applications.Developed modular C++ libraries for robot control, camera calibration, and perception integration in ROS2 environments.Streamlined software packaging and delivery using Docker, Conan, and CI/CD, improving internal deployment speed and stability.Collaborated with hardware teams to extend and debug SDK functionalities for new robotic components.Traveled to customer sites in China to implement, test and deliver on/site robotic solutions, ensuring smooth integration between software and hardware systems.Contributed to a Deep Learning object detection library and synthetic data generation pipeline.		
ML Scientist Simulation Team	Siemens Munich, Germany	2020–2021
<ul style="list-style-type: none">Implemented Physics Informed Neural Networks for Digital Twin technology.This helped to perform better simulation testing and reduced failure costs by 10%.Prototyped a data-driven software based on Probabilistic Programming to predict structural failures.Gained experience in Python programming and worked with Deep Learning libraries such as PyTorch and TensorFlow.		
Software Tester	TÜV SÜD Munich, Germany	2019–2020
<ul style="list-style-type: none">Conducted software quality testing and documentation migration to Microsoft Azure DevOps, improving test traceability and coverage.		

Education and Certifications

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| • M.Sc. Computational Science and Engineering , Technical University of Munich, Germany. | 2018–2021 |
| • B.E. Mechanical Engineering , M.S. Ramaiah Institute of Technology, Bangalore. | 2013–2017 |

Technologies and Languages

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| • Languages: | C++, Python, Rust, MatLab, Bash, CMake |
| • Technologies: | ROS2, Docker, Conan, VCPKG, Git, LaTeX |
| • Concepts: | Software architecture, Data structures, API design, SDK Development, Camera calibration, CI/CD |
| • Other: | Jira, Confluence, HTML, CSS |

Publications

- Generalized physics-informed machine learning for numerically solved transient physical systems ([link](#))
- DG-GRU: Dynamic Graph based Gated Recurrent Unit for age and gender prediction using Brain Imaging ([link](#))