

Work Experience

Software Developer **Agile Robots** **Oct 2021–Present**
AI Services Team Munich, Germany

- Developed a Deep Learning object detection library which reduced the amount of internal glue code across projects by 20%.
- Implemented a Synthetic Data Generation pipeline for vision tasks to curate task specific datasets. This led to wider applications of Deep Learning solutions. Integrated Data Version Control to maintain traceability.
- Upon requirement, developed and delivered an end-to-end Deep Learning model pipeline in C++.
- Traveled to on-site location in China to perform System Integration and perform stress testing before product delivery.
- Gained experience in Python and C++ programming, Docker based development and deployment.
- Learned about the Conan build and packaging system for C++ based applications.

ML Scientist **Siemens** **2020–2021**
Simulation team Munich, Germany

- Implemented Physics Informed Neural Networks for Digital Twin technology. ([Paper](#))
- This helped to perform better simulation testing and 10% reduced failure costs.
- 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** **2019–2020**
Munich, Germany

- Conducted software user testing to help the company move from a 100% paper based workflow to 40% digital.
- Maintained traceability via Microsoft Azure Boards and Azure Test Plans.

Manufacturing Executive **ITC Foods Limited** **2017–2018**
Bangalore, India

- Handled a juice manufacturing factory's operations, dispatches and inventory management.

Education and Certifications

- **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

- Languages: Python, C++, MatLab, Bash
- Technologies: Docker, Git, LaTeX
- Other: Jira, Confluence, HTML, CSS, Data structures and algorithms