



Leela Sai Prabhat

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EDUCATION

Master of Science | *Computational Science and Engineering*

Technische Universität München

October 2018 – September 2021

Munich, Germany

Bachelor of Engineering | *Mechanical Engineering*

M S Ramaiah Institute of Technology

August 2013 – June 2017

Bengaluru, India

WORK EXPERIENCE

Agile Robots AG

Software Developer (*Full-Time*)

October 2021 – Present

Munich, Germany

- Developed a deep learning based object detection software solution for internal robot application which reduced the amount of glue code written across projects
- Researched and prototyped a synthetic data generation pipeline to generate image data for vision tasks. This reduced dependence on public datasets

Siemens AG

Machine Learning Scientist (*Part-Time*)

August 2020 – July 2021

Munich, Germany

- Prototyped a data-driven software to predict structure failure based on Probabilistic Programming
- Researched and implemented Physics Informed Neural Networks (PINNs) for Digital Twin technology enabling thorough testing of machinery via simulation and reduced failure costs
- Published the research paper- [Generalized Physics-Informed Machine Learning for Numerically Solved Transient Physical Systems](#)

TÜV SÜD

Software Tester (*Part-Time*)

June 2019 – April 2020

Munich, Germany

- Conducted user testing of a employee certification management software to help the company shift from paper heavy management system to a digital one
- Drafted software requirements and created UML class diagrams to be outsourced to third party vendor
- Maintained traceability and managed development by third party vendor via Microsoft Azure Boards and Azure Test Plans

ITC Foods Pvt. Ltd.

Manufacturing Executive (*Full-Time*)

July 2017 – June 2018

Bengaluru, India

- Handled manufacturing plant operations and ensured smooth operation within the supply chain
- Conducted periodic maintenance of various on-premise equipment to maintain consistent production output
- Used SAP to handle factory dispatches and inventory management

Indian Institute of Science

Research Intern (*Full-Time*)

July 2016 – August 2016

Bengaluru, India

- Designed experiments to analyze wear properties of a novel Aluminium and Titanium composite to be used in the aerospace industry
- Characterized wear properties of the composite using pin-on-disc Tribometer which aided the researchers in further decision-making

SKILLS

Languages: English (C1), Telugu (Native), German (A1)

Programming: Python (NumPy, Matplotlib, Pandas, scikit-learn, TensorFlow, PyTorch), C++, MPI, OpenMP, MATLAB

Document Creation: Microsoft Office Suite, LaTeX, Markdown

Development Tools: Git, Docker, VS Code, PyCharm