

# Leela Kondamadugula

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**GitHub:** [github.com/masaaldosey](https://github.com/masaaldosey)



## EXPERIENCE

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### Software Developer

Agile Robots AG

Oct 2021 - Present  
Munich, DE

- Developed a Deep Learning based object detection software solution for internal robot application to reduced the amount of glue code written across projects
- Implemented a synthetic data generation pipeline for vision tasks and help curate job specific datasets

### Machine Learning Scientist

Siemens AG

Aug 2020 - Jul 2021  
Munich, DE

- Implemented Physics Informed Neural Networks for Digital Twin technology enabling better simulation testing and reduced failure costs
- Prototyped a data-driven software to predict structure failure based on Probabilistic Programming

### Software Tester

TÜV SÜD

Jun 2019 - Apr 2020  
Munich, DE

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

### Manufacturing Executive

ITC Foods Pvt. Ltd.

Jul 2017 - Jun 2018  
Bengaluru, IN

- Handled factory operations, dispatches and inventory management
- Conducted periodic maintenance of various on-premise equipment to maintain consistent production output

### Research Intern

Indian Institute of Science

Jul 2016 - Aug 2016  
Bengaluru, IN

- 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 to aid further research

## PUBLICATIONS

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- [1] A. Kazi, V. Markova, P. R. Kondamadugula, B. Liu, A. Adly, S. Faghihroohi, and N. Navab, “Dg-gru: Dynamic graph based gated recurrent unit for age and gender prediction using brain imaging”, in *Medical Imaging 2022: Computer-Aided Diagnosis*, SPIE, vol. 12033, 2022, pp. 277–281.
- [2] R. E. Meethal and L. S.P. R. Kondamadugula, “Generalized physics-informed machine learning for numerically solved transient physical systems”, 2021.

## EDUCATION

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### **M.Sc. in Computational Science and Engineering**

Technische Universität München

2018–2021

Munich, DE

- Thesis: “Cross-modal Retrieval using Graph-Convolution Networks”

### **B.E. in Mechanical Engineering**

M S Ramaiah Institute of Technology

2013–2017

Bengaluru, IN

- Thesis: “Design and Analysis of a Flapping Wing of Micro Aerial Vehicle using Ionic Polymer Metal Composite”

## SKILLS

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- **Programming:** Python, C/C++, Matlab, Rust
- **Machine Learning:** PyTorch, TensorFlow, SciKit-Learn
- **Tools/Techs:** L<sup>A</sup>T<sub>E</sub>X, Git, Jira, Confluence
- **Web:** HTML/CSS, Jekyll

## LANGUAGES

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- **English:** Proficient, TOEFL iBT score: 113/120
- **GRE:** V: 158/170, Q: 159/170, AW: 3.5/6.0
- **Telugu:** Mother tongue, native speaker
- **Deutsch:** Beginner, CEFR level: A1