Leela Kondamadugula

Website: masaaldosey.github.io
Email: prabhatreddyk@gmail.com
LinkedIn: prabhat-reddy
GitHub: github.com/masaaldosey

Experience

Software Developer Oct 2021 - Present
Agile Robots AG Munich, DE

- Developed a Deep Learning based object detection software solution for internal robot application to reduce 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 Aug 2020 - Jul 2021
Siemens AG 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 Jun 2019 - Apr 2020
TÜV SÜD 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 Jul 2017 - Jun 2018
ITC Foods Pvt. Ltd. Bengaluru, IN

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

Research Intern Jul 2016 - Aug 2016
Indian Institute of Science 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

[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

M.Sc. in Computational Science and Engineering 2018–2021
Technische Universität München Munich, DE

- Thesis: "Cross-modal Retrieval using Graph-Convolution Networks"

B.E. in Mechanical Engineering 2013–2017
M S Ramaiah Institute of Technology Bengaluru, IN

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

Skills

- **Programming:** Python, C/C++, Matlab, Rust
- **Machine Learning:** PyTorch, TensorFlow, SciKit-Learn
- **Tools/Techs:** LaTeX, Git, Jira, Confluence
- **Web:** HTML/CSS, Jekyll

Languages

- **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