Jayanth Siddamsetty

Curriculum Vitae

Work Experience

Jun 2022 – Present
Researcher, *DFKI GmbH*, Kaiserslautern.
- Mission KI: Developing test methods to evaluate trustworthiness of AI systems. Focus on Robustness and compliance.
- *IQZ Kaiserslautern*: Consulting SMEs with use and development of trustworthy AI. Role determination, Risk classification, and Compliance requirements under the EU AI Act.
- Sanierungsquotenatlas: Applied deep learning to remote sensing data to predict the energy efficiency of buildings.
- Yield Consortium: Applied transfer learning to use yield prediction models trained with images from other regions.
- Change detection: Developed a prototype change detection system that can be adopted to various downstream tasks, including mining detection, deforestation monitoring, and wildfire detection.
- AI4EO Solution factory: Contributed to developing a Python library to help researchers in Earth Observation rapidly prototype their deep learning-based solutions.
- Worked on Land Use Land Cover classification models and their transferability to other regions using domain adaptation.
- Supervised master theses, student projects and seminars in Applied AI.

Feb 2022 – May 2022
Student Assistant, *Chair of Digital Farming, University of Kaiserslautern*, Kaiserslautern.
- Studied the application of Explainable AI in Digital farming applications

Apr 2021 – May 2022
Research Assistant, *Fraunhofer ITWM*, Kaiserslautern.
- Upwards: Used machine learning methods to optimize the placement of wind turbines inside wind park to maximize power generation.
- OpenMeter: Worked on time series forecasting of energy consumption by public buildings using Facebook prophet
- Developing dashboards using Dash and plotly

Nov 2020 – Mar 2021
Student Research Assistant, *Fraunhofer IESE*, Kaiserslautern, Department of Security Engineering.
- IND^{2}UCE: Developed web services to implement location-based data usage control for Gaia-X, a large European initiative using Java and Spring Boot.
- Worked with RDF files and SPARQL to implement parts of the web service

Meuschelstrasse 71 – Nuremberg, Germany 90408
(+49)15215235001 • jsiddamsetty@gmail.com
LinkedIn - Jayanth Siddamsetty   *1/2*

Jul 2017– Jul 2019	**Software Engineer**, *Societe Generale Global Solution Centre*, Bengaluru, India. ○ Automated and simplified the process of creating new trading instruments in the referential system by developing a web application ○ Participated in the development of a machine-learning-based predictive maintenance system for our referential system

Education

Oct 2019 – Apr 2022	**Masters in Computer Science**, *University of Kaiserslautern*, Kaiserslautern. *Grade*: 1.6 ○ Specialized in Intelligent Systems ○ *Thesis*: Land Cover Land Use Classification using Deep Learning ○ *Seminar*: Recent advances in Explainable AI
Aug 2013 – Jun 2017	**Bachelor of Engineering**, *Visvesvaraya Technological University*, Karnataka, India, *GPA*:8.2. Information Science and Engineering, First Class with Distinction

Publications

2023	**Inter-region Transfer Learning for Land Use Land Cover Classification**, *ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences.* More publications can be found _here_

Certifications

March 2025	**ISO/IEC 42001 Provisional Implementer**, *PECB*.
May 2025	**Foundations of Independent Audit of AI Systems**, *ForHumanity*.
Jan 2024	**Ethics of AI**, *University of Helsinki*.
2025	**AI in Society: Introduction, Discrimination, Justice, and Democracy**.

Skills

AI Governance: AI Audit, EU AI Act, ISO 42001 implementation, GPAI CoP, NIST AI RMF, AI Ethics, HLEG AI Trustworthy AI Guidelines, Trustworthy AI

AI Development: PyTorch, Python, Computer Vision, LLM, Agents, RAG, HPC, Slurm

Machine Learning: numpy, pandas, sklearn, cv2, Time series analysis and forecasting

Web Development: Java, Typescript, Spring Boot, REST and Angular

Languages

German (B2.1), English (Fluent) and Kannada (Native)

Volunteering

Oct 2015 – Mar 2018	**Ed-Support Volunteer & Mentor**, *Make a Difference*, Bengaluru, *makeadiff.in*. ○ Taught Mathematics and English to underprivileged children, and ○ Mentored other volunteers