



# Manu Somasagar Kamalakar

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Meisenweg 10, house number: 219, 67663, Kaiserslautern, Germany

About me: I am a Machine Learning enthusiast, pursuing MSc. Computer Science at TU Kaiserslautern, Germany.

## ● WORK EXPERIENCE

01/01/2020 – CURRENT – Kaiserslautern, Germany

**SCIENTIFIC STUDENT ASSISTANT** – FRAUNHOFER INSTITUTE FOR INDUSTRIAL MATHEMATICS (ITWM)

- Working on **Federated Machine Learning**: Performing research in the field of federated machine learning by conducting experiments with various state-of-the-art datasets using federated machine learning frameworks.
- Worked as a part of the team to build a federated learning framework in which an algorithm is trained across multiple decentralized edge devices holding local datasets, without exchanging them.
- Frameworks: PyTorch, Tensorflow Federated (TFF).

24/08/2017 – 09/08/2019 – Bengaluru, India

**SOFTWARE ENGINEER – DEVOPS** – SOCIETE GENERALE GLOBAL SOLUTION CENTRE

- SVN to GITHUB migration: Developed an application to automatically migrate the SVN source code repository to GITHUB.
- Programming language and frameworks used: Python, Flask, and ReactJs.
- Worked as a part of the DevOps transformation team to coach project teams about DevOps culture.
- Successfully implemented **CI-CD** pipelines for project teams using GIT, Nexus, Sonar, Jenkins, and Ansible.
- Written scripts to deploy the applications to **AWS and Openshift**.

03/04/2017 – 23/08/2017 – Bengaluru, India

**YOUNG GRADUATE** – SOCIETE GENERALE GLOBAL SOLUTION CENTRE

- Developed an ML-based chatbot using TensorFlow.
- Participated in machine learning workshops and have given presentations on OpenShift at Societe Generale global meeting.
- Worked as a test engineer. Used tools such as Selenium and UFT to automate the testing process.

02/08/2016 – 24/03/2017 – Bengaluru, India

**TRAINEE - FULL STACK DEVELOPER** – RANTYASOFT PVT LTD.

- Worked as a developer in a startup to build a practice management software called Cordl.
- Our team was responsible for the end-to-end development of the product.

## ● EDUCATION AND TRAINING

01/10/2019 – CURRENT – Erwin-Schrödinger-Straße 1, Kaiserslautern, Germany

**MSc. COMPUTER SCIENCE** – TU Kaiserslautern

**Specialization-1:** Intelligent Systems (AI)

**Specialization-2:** Software Engineering

**Thesis:** Federated Machine Learning for Fraud Detection

**Project:** Deep Digit Recognition

**Seminar:** Photorealistic fakes with Generative Adversarial Networks

2.5 | EQF level 7 | ECTS | 120 | <https://www.uni-kl.de/en/>

01/08/2012 – 01/08/2016 – Bangalore, India

**BACHELOR OF ENGINEERING IN COMPUTER SCIENCE & ENGINEERING** – K.S. Institute of Technology

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Duration of course: 4 years (8 semesters)

Completed the Bachelor's Degree with an aggregate percentage of **75.24%** (Distinction)

**Project:** A Data Mapping Strategy for Parallel Data Mining Nodes in Grid connected to a Storage Cloud.

01/06/2010 – 01/06/2012 – Sirsi, India

**PRE UNIVERSITY EDUCATION CERTIFICATE** – Shree Marikamba P U College (Karnataka PU Board)

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Completed Pre-University with **86.33%** (distinction)

01/06/2007 – 01/06/2010 – Sirsi, India

**SECONDARY SCHOOL LEAVING CERTIFICATE** – Shree Marikamba High School

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Completed Class 10 - high school with **93.44%**

## ● LANGUAGE SKILLS

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**Mother tongue(s):** KANNADA

**Other language(s):**

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ENGLISH</b>	C1	C1	C1	C1	C1
<b>GERMAN</b>	A2	A2	A2	A2	A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

## ● CONFERENCES AND SEMINARS

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Conferences

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\* **All India Level DevOps Conference** conducted by DevOps Institute.

\* **Proposed a topic "Marrying Machine Learning with DevOps" for agile-day 2019 Washington DC.**

## ● RECOMMENDATIONS

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Dr. Stefanie Grimm – Product Manager "Data Science" – [stefanie.grimm@itwm.fraunhofer.de](mailto:stefanie.grimm@itwm.fraunhofer.de)

Method coordinator "Data Science"

Nivarty Jayaram – Vice President, Societe Generale. – [kaustubhasai@gmail.com](mailto:kaustubhasai@gmail.com)

Personal Website: [nivartijayaram.com](http://nivartijayaram.com)

## ● ORGANISATIONAL SKILLS

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### Organisational skills

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#### Time Management Skills:

- Creating and keeping deadlines
- Goal setting and meeting goals
- Decision making
- Problem-solving
- Multitasking

#### Interpersonal Skills:

- Ability to rapidly build a relationship and set up trust.
- Team Player, Fast learner, and dedicated.
- I am a confident, determined, dedicated team player with fast learning and good communication skills.

## ● COMMUNICATION AND INTERPERSONAL SKILLS

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### Communication and interpersonal skills

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- Excellent contact and communication skills gained through my experience as a DevOps engineer
- Organized multiple team events at Societe Generale
- The organizer of techno-cultural college fest *Ananya*
- Past Event Coordinator at IEEE Bangalore Section
- Member of college Google Developer Group

## ● JOB-RELATED SKILLS

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### Job-related skills

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- **Machine Learning:** Pytorch, Tensorflow, Scikit-learn, Numpy, and Pandas.
- **Development Tools & Platforms:** Anaconda, Pycharm, Eclipse, Android Studio, Visual Studio.
- **Technical Skills:** Python, Machine Learning, Deep Learning, Computer Vision, Java, C.
- **DevOps Tools:** GIT, Jenkins, Nexus, Ansible, Apache Tomcat, NGINX.
- **Cloud:** AWS, Openshift.
- **Databases:** MySQL, Postgres.
- **Operating Systems:** Linux, Ubuntu, Windows, Kali-Linux.

## ● CERTIFICATIONS

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### Certifications

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- Oracle Certified Professional, Java SE 6 Programmer
- IELTS (Band 7)