Manu Somasagar Kamalakar

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About me:
I am a Machine Learning enthusiast working as a research engineer at Fraunhofer ITWM. I studied MSc. Computer Science at TU Kaiserslautern, Germany.

WORK EXPERIENCE

01/10/2021 – CURRENT – Kaiserslautern, Germany
RESEARCH ENGINEER – FRAUNHOFER INSTITUTE FOR INDUSTRIAL MATHEMATICS (ITWM)

- Working with Porsche to build machine learning solutions to solve business problems
- Doing research on Anomaly detection techniques on unsupervised data

01/01/2020 – 30/09/2021 – Kaiserslautern, Germany
SCIENTIFIC STUDENT ASSISTANT – FRAUNHOFER INSTITUTE FOR INDUSTRIAL MATHEMATICS (ITWM)

- Worked on federated machine learning by conducting experiments with various state-of-the-art datasets using federated machine learning frameworks such as PyTorch and Tensorflow Federated.
- Worked as a part of the team to build a novel federated learning framework and a working MVP.
- Implemented FedProx weight aggregation method for federated learning.

24/08/2017 – 09/08/2019 – Bengaluru, India
SOFTWARE ENGINEER – DEVOPS – SOCIETE GENERALE GLOBAL SOLUTION CENTRE

- Developed a python-flask application to automatically migrate the SVN source code repository to GITHUB.
- Worked as a part of the DevOps transformation team to coach project teams about DevOps culture.
- Implemented CI-CD pipelines for project teams**.**
- 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.
- Worked as a test engineer. Have 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 to build practice management software

EDUCATION AND TRAINING

01/10/2019 – 30/09/2021 – 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

01/08/2012 – 01/08/2016 – Bangalore, India
BACHELOR OF ENGINEERING IN COMPUTER SCIENCE & ENGINEERING – K.S. Institute of Technology

Grade: 75.24% (Distinction)
Project**:** A Data Mapping Strategy for Parallel Data Mining Nodes in Grid connected to a Storage Cloud.

01/06/2007 – 01/06/2010 – Sirsi, India
SECONDARY SCHOOL LEAVING CERTIFICATE – Shree Marikamba High School

Grade: 93.44% (Distinction)

LANGUAGE SKILLS

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	C1	C1	C1
GERMAN	A2	A2	A2	A2	A2

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

RECOMMENDATIONS

Dr. Stefanie Grimm – Product Manager "Data Science" – stefanie.grimm@itwm.fraunhofer.de

Method coordinator "Data Science"

Nivarty Jayaram – Vice President, Societe Generale. – kaustubhasai@gmail.com

Personal Website: nivartijayaram.com

Dr. Stefanie Schwaar – Business Unit Developer – stefanie.schwaar@itwm.fraunhofer.de

Business Unit Developer

COMMUNICATION AND INTERPERSONAL SKILLS

Communication and interpersonal skills

- Excellent contact and communication skills gained through my experience as a DevOps engineer.
- I was a member of techno-cultural college fest organizing committee.
- I was an event coordinator for IEEE Bangalore Section.
- I was a member of college Google Developer Group.
- Good at creating and keeping deadlines.
- I set short-term and long-term goals and work hard to accomplish them.
- I have good decision making, problem-solving skills.
- I am confident, multitasking, and a team player with fast learning skill.

SKILLS

Job-related and Technical skills

- 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.
- DevOps Tools: Git, Jenkins, Nexus, Ansible, and Docker.
- Cloud: AWS, Openshift.
- Databases: MySQL, Postgres.
- Operating Systems: Linux, Ubuntu, Windows, Kali-Linux.

CERTIFICATIONS AND CONFERENCES

Certifications and Conferences

- Oracle Certified Professional, Java SE 6 Programmer
- IELTS (Band 7)
- All India DevOps Conference conducted by the DevOps Institute.
- Proposed a topic "Marrying Machine Learning with DevOps" for agile-day 2019 Washington DC.