



Personal information

Surname / First name

Iyer Venkatesh R

Address

Kurt Schumacher Straße, 8.U2, Kaiserslautern

Telephone

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Professional Email

iyervenkatesh92@gmail.com

Nationality

Indian

Date of birth

3 June 1992

Gender

Male

LinkedIn

<https://www.linkedin.com/in/iyervenkatesh3692/>

GitHub

<https://github.com/venkyiyer>

Work Experience

Nov 2019 - Present

Student assistant, MindGarage (Technische Universität Kaiserslautern)

Assisting students regarding Deep Learning course, Master projects and thesis. Hardware and software maintenance of lab

Oct 2018 - June 2019

Student assistant, Department of Cognitive and Developmental Psychology

Designed and developed three world-wide known psychometric test procedures (flanker test, mental rotation and n-back) for usage in mobile device

July 2014 - Aug 2016

Associate software developer, Ernst & Young(EY), Bengaluru, India

Designed, developed and supported live applications using Microsoft SharePoint. Lead team size of 4 (consultants) for J.P Morgan Chase to manage internal audit (Sarbanes-Oxley Act) data on Microsoft SharePoint

June 2013 - June 2014

Software engineering intern, Leon's Integrations, Vadodara, India

Team size of 2. We developed the account and taxation modules which were integrated in the Enterprise Resource Planning (ERP) business management software

Education

Oct 2016 - Present

Title of qualification awarded

Technische Universität Kaiserslautern, Germany

M.Sc in Computer Science(Artificial Intelligence)

Key courses

Deep Learning, Applications of AI, Computer Vision, Machine Learning, Embedded Intelligence, Biologically Motivated Robots

June 2010 - June 2014

Title of qualification awarded

Gujarat Technological University, India

Bachelor of Engineering in Computer Science

Key courses

Operating systems, Data structure and Algorithms, Compilers, AI, Computer graphics

Research Experience

June 2019 - Jan 2020

Master Thesis, Semantic Segmentation and Object Detection using a common pipeline

Designed and implemented a combined multi-task architecture to learn Computer Vision problems semantic segmentation and object detection in parallel. This architecture uses a shared encoder. Reduces the total cost

April 2019 - May 2019

In-House project, Cancer Nuclei Segmentation

Explored traditional Computer Vision and Deep Learning (UNet) for cell segmentation. Work based on data-set borrowed from 2018 Data Science Bowl Competition

Oct 2018 - March 2019

Master project, Semantic Segmentation and Object Detection using OpenCV library

Implemented semantic segmentation architecture using city dataset. Using OpenCV, detected objects on the segmented map. Lastly, classified each object using a classification network

Oct 2017 - Feb 2018

In-House project, Classifying political affiliation based on Twitter posts

Team size of 3. Classification of each German political figure within their political party using their tweets. Used pre-trained NLP technique Word2Vec. Data-set from 7 major political parties in Germany

Community Involvement

Research lab

Member of organizing committee of MindGarage lab, founded by Insiders Technology, Kaiserslautern. Responsibilities include hardware and software maintenance of lab infrastructure, organizing hackathons for research purpose

Skills

APIs, libraries, frameworks

TensorFlow, Keras, NumPy, SciPy, Scikit-learn, Pandas, Jupyter Notebooks, OpenCV, HTML/CSS, Docker

Programming languages

Python, C++, JavaScript

Databases

Oracle, DB2, MySQL

Scrum

Jira

Version Control

Git

Additional Information

Languages

English (fluent), German (basic), Tamil (mother tongue)

Hobbies

Playing computer games, listening music, playing football

Awards

EY 'Extra Miler' Award
'Best Speaker' award in EY Toastmasters club

Trainings

Machine Learning course by Stanford University (Coursera)
Sequence models for natural language and audio (Coursera)
SharePoint and SharePoint Designer 2010, 2013

References available upon request