



Personal information

Surname / First name	Iyer Venkatesh R
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Nationality	Indian
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Gender	Male
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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	Technische Universität Kaiserslautern, Germany
Title of qualification awarded	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	Gujarat Technological University, India
Title of qualification awarded	Bachelor of Engineering in Computer Science

Key courses

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

Research Experience

May 2019 - May 2019

In-house project, Toxic Comment Classification

Implemented a web application to detect measure of toxicity (trash talks, vulgar comments) in YouTube video comments. Used Kaggle data-set and BERT based architecture

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 and hence reducing the number of trainable parameters to a half. Real-time usage with an autonomous robot in progress.

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

Using tweets, classified German politicians within their party. 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, Flask, 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

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