



MOHITH BHARGAV SUNKARA

MASTER STUDENT AT BIELEFELD UNIVERSITY

Experience

● Aug 2019 - Present 4ALLPORTAL Information Technology and Services

- Software Developer, Gütersloh, Germany
- Build software components which increase the efficiency of the core application.
 - Wireframe strategies for an efficient development environment.
 - Solving production issues and attended technical tickets related to the core application.

Education

● Oct 2017 - Present M.S. in Intelligent Systems Bielefeld University, Bielefeld, Germany

- Machine Learning - Reinforcement Learning - Deep Learning - Statistical Natural Language Processing - Social Robotics and Human Cognition

● Jun 2013 - Jun 2017 B.Tech. in Electronics and Instrumentation Engineering SRM University, Chennai, India

- Automation Engineering - Control systems - Electronic circuits and Digital System - Microprocessor and Micro-controller - Logic and Distributed Control Systems

Projects

Oct 2019

RELATION CLASSIFICATION VIA CONVOLUTIONAL DEEP NEURAL NETWORKS

CITEC-Bielefeld University

- Data refactoring, pre-processing and building CNN using Tensorflow.
- Hyper-parameter tuning.
- Comparing the paper results with the built module.

Feb 2019

MODELLING SOCIAL EMBODIMENT IN SOCIAL ROBOTIC COMPANIONS: USING TAMAGOTCHI & NAO

CITEC-Bielefeld University

- To understand the social aspects of a robot and human interactions.
- Developed a Tamagotchi graphical user interface and Tamagotchi architecture in the NAO robot.
- Performed a survey on human participants and collected data for further analysis.

Mar 2019

MANIPULATION OF OBJECTS WITH ROBOTIC ARMS IN SIMULATED ENVIRONMENTS

CITEC-Bielefeld University

- Worked with logic-geometric programming and Configuration space analysis.
- Worked with incorporating physics in LGP.
- Worked with multi-bound tree search-based solver.

Contact

🏠 App 128, 3OG, Roggenkamp 22
- 33605, Bielefeld, Germany

☎ +49 178 2127227

✉ bhargav.mohith101@gmail.com

🔗 <https://swagking0.github.io/Portfolio/>

in [linkedin.com/in/mohith-bhargav-sunkara-930796119](https://www.linkedin.com/in/mohith-bhargav-sunkara-930796119)

🐙 <https://github.com/swagking0>

Skills

Scripting Languages

C & C++

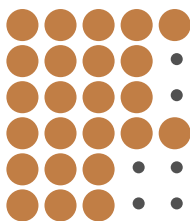
Python

Java

Bash

HTML & CSS

JavaScript



Extra Skills

Firewalls

iptables & filters

Docker

3D-Modelling

Graphic designs



Interests

Full stack development

- ♥ Wire-frame, build and deploy.

AI research development

- ♥ Explore and collaborate to find "New".

Gaming

- ♥ Strategies, reflexes and fun.

Sketching

- ♥ Imagination and creativeness.

Jan 2019	USING SPIKING NEURAL NETWORKS AS A SUDOKU SOLVER <i>CITEC-Bielefeld University</i> <ul style="list-style-type: none"> - Implementation of winner takes all architecture using the spiking neurons to solve different sizes of sudokus. - Build a simple and flexible graphical user interface with both sudokus drawing features and solver steps analyzing features.
Jan 2019	DEEP LEARNING <i>CITEC-Bielefeld University</i> <ul style="list-style-type: none"> - Worked on GAN's and Adversarial attack of the image dataset. To perform Image classification and idea was to manufacture adversarial examples to fool the network into making wrong predictions. - Worked on training a recursive and recurrent neural network. In Recursive neural network which was trained to estimate the free energy of an RNA, Net has to infer the correct energy from a given tree.
Dec 2018	INTEGRATION OF A MICROPHONE IN THE AMIRO PLATFORM, DATA ANALYSIS AND UTILIZATION OF THIS INFORMATION IN APPLICATIONS <i>CITEC-Bielefeld University</i> <ul style="list-style-type: none"> - Implementation of a Software interface to retrieve data from the microphone. - Analysis of microphone data using signal processing methods. - Transformation of the processed audio data into an application using AMiRo platform.
Oct 2018	LEARNING TO ACT - REINFORCEMENT LEARNING WITH DEEP NEURAL NETWORKS IN SIMULATED ENVIRONMENTS <i>CITEC-Bielefeld University</i> <ul style="list-style-type: none"> - Developed data capturing modules to analyze the OpenAI robotic arms environment, analyzed data was later used to integrate touch sensors into the OpenAI robotic arms environment. It was an effort to reduce the convergence time towards the final goal (based on preliminary results from developed data capturing modules).
Sep 2018	INTERACTION IN VIRTUAL REALITY <i>CITEC-Bielefeld University</i> <ul style="list-style-type: none"> - Understand the problems using ray-casting in a complex environment. Wire-frame a solution. Implement the solution and test it with complex environments (Super Market).
May 2017	AN AUTOMATED SYSTEM AND PROCESS FOR CLEANING CONTAINERS <i>SRM University</i> <ul style="list-style-type: none"> - Designed and developed a full-scale process control prototype to solve the problems in cleaning drinking water bottles at drinking water supplies industry. - Integration of sensors and software using IoT platform (Cayenne).

Languages

- Telugu:** Native or bilingual proficiency
- English:** Professional working proficiency
- Hindi:** Professional working proficiency
- German:** Elementary proficiency

Achievements

Patent (Aug 2018)

-  "AN AUTOMATED SYSTEM AND PROCESS FOR CLEANING CONTAINERS". In: The Patent Office Journal No. 32/2018, pg.no. 29682.

Publications

Journal Article

INTERNATIONAL JOURNAL OF INNOVATIVE TECHNOLOGY AND EXPLORING ENGINEERING (IJITEE)

Balavivek Sivanantham, Mohith Bhargav Sunkara, Burugu Ravi Teja | Volume-9 Issue-4, Feb 2020 Pg: 575-582
 "Modelling Social Embodiment in Social Robotic Companions: using Tamagotchi & NAO"