



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 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

Present

PERSONAL PORTFOLIO WEBSITE

Personal Project

- Developing personal portfolio website using ReactJs and CSS3.
- Developing personal profile data manager using ReactJs, NodeJs and Firebase.
- Setting up and automate hosting on Github.

Present

GSHEET EDITOR

Personal Project

- A software tool to simply and work with data stored over google sheets.
- Developing core and desktop-based application.
- Integrating data visualization tools.

Oct 2019

RELATION CLASSIFICATION VIA CONVOLUTIONAL DEEP NEURAL NETWORKS

Academic Project

- Data refactoring, pre-processing and building CNN using Tensorflow.
- Hyper-parameter tuning.

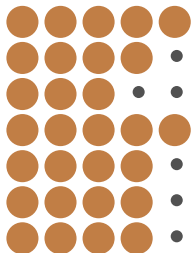
Contact

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- 🐙 <https://github.com/swagking0>

Skills

Scripting Languages

C & C++
Python
Java
Bash
HTML & CSS
JavaScript
Embedded C



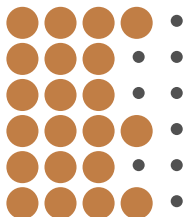
Databases

MySQL
Mongodb



Frameworks & Softwares

ReactJs
Flutter
NodeJs
Qt & PyQt
Docker
Git & GitLAB



Interests

Full stack development

- ♥ Wire-frame, build and deploy.

AI research development

- ♥ Explore and collaborate to find "New".

Gaming

- ♥ Strategy based, role play and story based.


Mar 2019	MANIPULATION OF OBJECTS WITH ROBOTIC ARMS IN SIMULATED ENVIRONMENTS <i>Academic Project</i> <ul style="list-style-type: none"> - Worked with logic-geometric programming and Configuration space analysis. - Worked with incorporating physics in LGP. - Worked with multi-bound tree search-based solver.
Feb 2019	MODELLING SOCIAL EMBODIMENT IN SOCIAL ROBOTIC COMPANIONS: USING TAMAGOTCHI & NAO <i>Academic Project</i> <ul style="list-style-type: none"> - 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.
Jan 2019	USING SPIKING NEURAL NETWORKS AS A SUDOKU SOLVER <i>Academic Project</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.
Dec 2018	INTEGRATION OF A MICROPHONE IN THE AMIRO PLATFORM, DATA ANALYSIS AND UTILIZATION OF THIS INFORMATION IN APPLICATIONS <i>Academic Project</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.
Sep 2018	INTERACTION IN VIRTUAL REALITY <i>Academic Project</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>Academic Project</i> <ul style="list-style-type: none"> - Designed and developed a full-scale IoT based process control prototype to solve the problems in cleaning drinking water bottles at drinking water supplies industry.

Languages

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

Achievements

Patent (Aug 2018)

-  Bachelor Thesis: "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"