



Mallikarjun Sajjan

Data scientist

Contact

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In: <https://bit.ly/3CpFdgx>

Github: <https://bit.ly/3mrEO6L>

Educations

ENGINEERING (BE)

RV college of engineering

2012-2016

9.12 / 10 GPA

EXECUTIVE EDUCATION

*The University of California,
Berkeley - Haas School of
Business*

2018-2019

Skills

Python

CPP

Computer vision

MLops

Docker, Actions, kubernetes

Pytorch, Tensorflow

Azure, AWS

AIOT

Embedded AI

Machine learning

Deep learning

Agile Development

Business development

Summary

Experienced software Engineer with a demonstrated history of working in computer vision, Data analytics, Machine learning, and Cheomometric technology. Strong engineering professional, skilled in python, R, and CPP. actively learning MLops.

Experiences

CHECKAG

Co-founder, OCT 2021 - Present

Co-founded an agritech startup CheckAg, with aim of feeding the world with safe and quality food, A affordable AIOT spectrometer to assess the qualitative and quantitative analysis of the Food produced at the source itself.

- Won a grant amount of \$70k from govt of India biotechnology startup initiative BIG BIRAC.
- Innovating on affordable FTIR and Raman spectrometer development targeting Agri and dairy industry.

RBEI

Consultant, Feb 2022 - present

- Non-invasive detection of creatinine present in the blood - Helping Bosch to expand its healthcare solution after their success in non-invasive hemoglobin detection device. Part of the research team to realize a very complex creatinine detection AIOT device for early detection of kidney-related risk assessments.

SMILE-WAND

Freelancer, Nov 2021 - Feb 2022

- Stereo camera Scanner for dentature - Using stereo-photogrammetry to solve intra-oral scanner for dentature.
- camera selection for the PoC, camera calibration, Camera bring up and validation, Stereo images to 3D point cloud generation, and 3D point cloud stitching. 3D point cloud to dimensions measurements.

RBEI

senior data scientist, JULY 2019 - OCT 2021

- Contributed as a part of the Data Science/Computer vision team in RBEI. Final assignment on AIOT topic Horizon(Bosch PT), a 2d laser point cloud analysis to create a floor plan and object detection. Key contribution to CI-CD pipelining,, Algorithm development in python and CPP, Object detection module development. And multiple point cloud stitching algorithm development.
- Deployed AI-based solution for monitoring people (Face-mask detection, and social distancing measurement and alerts solutions) entering terminals at BIAL Bangalore. The algorithms are containerized and deployed in a high-end machine for customers with RTSP feed as input. Multiple threads were established to run multiple cameras at a time for live screening,, Key customers are BIAL and other international airports, building securities..

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Languages

English

Kannada

Hindi

Hobbies & interests

I love watching anime, and I am big fan of football, my heart is with FC Bayern Munich.

I love traveling and I do travel in free times.

And when I get super bored I like to draw and paint.

- Developed AI device for grain analysis as a part of a startup within Bosch under the guidance of the Bosch accelerator program, led the development of Algorithms and business development activities, and successfully cleared the first phase of the program before moving into the next assignment.
- Successfully deployed a Drone based computer vision and ML solution for yield & harvest Estimation using semantic segmentation, regression, and CNN.
- Worked on POC for Multi-view stereo 3D reconstruction for inventory volume analysis. Machine learning and computer vision-based system to estimate the volume and subsequent change in volume of a stockpile.
- Successfully deployed Deep learning models for a topic Genesis, a satellite-based solution to monitor the agri-field. My responsibilities including, process the data collected from satellite images of an agricultural field of study. Worked on modules like semantic segmentation on satellite images, Crop classification on satellite images, etc..

RBEI

junior data scientist, JULY 2016 - JUNE 2018

- Owned AI-based milk adulterant detection device development and Spectroscopy Analytical tool development.
- Successfully completed the product development of Milk analyzer device. Contributed to Algorithm development, HMI design, and System engineering including optical design of the sensor. Developed a Machine-learning algorithm for the classification of milk Spectra for detection of possible adulteration both qualitatively and quantitatively.

Achievements

SUCCESSFULLY FILED TWO PATENTS AT INDIAN PATENT OFFICE.

- MIR based sensor arrangement device for milk composition and adulterant detection - Registered - 201941003807
- A sensor arrangement for detecting a plurality of milk constituents in a milk sample - Registered - 201841044598

PRESENTED PAPER AT SPRINGER FORUM

Link of the paper published: <https://bit.ly/2ko1Qz6>

Sincerely,

