

Srivastava Burugu

Robotics Engineer

I'm a Senior Engineer with 5.08 years of experience in Robotics looking forward to explore my horizons with commitment and passion.

srivastavaburugu@gmail.com

9941313095

Bangalore, India

linkedin.com/in/srivastava-burugu-7558a3200

WORK EXPERIENCE

Senior Technology Lead TATA ELXSI Limited

11/2021 - Pres

Achievements/Tasks

- Containerization of AI applications and also working with gRPC that uses protocol buffers for interfacing.
- Deployed as an onsite coordinator for an industrial robotics solution company for 4 months in Japan.
- Simulation of gripper based solutions in unity.

Senior Engineer TATA ELXSI Limited

10/2019 - 11/2021

Bangalore, India

Achievements/Tasks

- Dockerization of YOLO V4.
- Created an application using ROS where a mobile robot shows the location of persons on the map of the environment.
- Created an application where the mobile robot follows the target person in an environment with the help of Artificial Intelligence (AI) maintaining safe distance.
- Created a method to optimize image data generation for a self-learning robot with the help of depth Images and upload the same to Amazon s3 bucket in AWS cloud.

Engineer TATA ELXSI Limited

10/2017 - 10/2019

Bangalore, India

Achievements/Tasks

- An Industrial motor was made to move (in simulation environment) on the basis of direction and amount in which the force is applied.
- A Robotic Arm (Custom build) is used in order to scan a face which is in the view of end effector (Camera) and perform several beauty analytics.
- Ground up development for a mobile base to perform Simultaneous Localization and Mapping (SLAM) for a given area in order to perform specific tasks.
- Detecting the position of brush inside Mouth and send the results to the Mobile Application using Inertial Measurement Unit (IMU) sensor.
- Created an application where a mobile robot navigates through and shows the Wi-Fi signal strength in the map of the environment where it is navigating.
- Implemented a Reinforcement Learning (RL) algorithm where a mobile robot navigates freely without hitting obstacles in an environment.

SKILLS

Unity Robot Operation System(ROS) Python
Sensor Fusion Kinematics Inverse Kinematics
Gazebo Arduino AutoCAD AWS Cloud
gRPC Dockers Git

PROJECTS

Industrial Motor Automation (12/2017 - 03/2018)

Beauty Analyzer (04/2018 - 08/2018)

Minimalistic SLAM (09/2018 - 12/2018)

Smart Oral Care (01/2019 - 06/2019)

Reinforcement Learning(RL) solution for path planning (07/2019 - 01/2020)

AI based Robot Vacuum Cleaner (05/2020 - 01/2021)

Self Learning System (02/2021 - 04/2021)

Dockerization of YOLO-v4 (05/2021 - 06/2021)

AI Container Development (08/2021 - 01/2023)

Simulation of Grippers in Unity (01/2023 - Pres)

EDUCATION

Bachelor's of Technology (B.Tech) in Mechanical Engineering

Vel Tech Dr.RR & Dr.SR Technical University

2013 - 2017

9.68 GPA

ACHIEVEMENTS

AWS cloud practitioner course completion certification.

Received a Bravo Award for AI based Robot Vacuum cleaner project.

Won first place in "prognosis event organized by prodigy 2015 (NIT Tiruchirappalli)".

CERTIFICATIONS

Convolutional Neural Networks (05/2023 - 06/2023) [Coursea](#)