

# GAUTAM SURYAWANSHI

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## EDUCATION

**University at Buffalo, The State University of New York**

Buffalo, USA

*Master's in Engineering Science*

*June-2021*

Specialization: Artificial Intelligence, Robotics

Key Coursework – Machine Learning, Robotics Algorithms, Deep Learning, Reinforcement Learning, Robotics, Computer Vision.

**Dr. Babasaheb Ambedkar Marathwada University**

Aurangabad, India

*Bachelor of Engineering*

*June-2016*

Specialization: Electronics and Communication Technology

## PROFESSIONAL EXPERIENCE

**HELLA AUTOMOTIVE**

Pune, India

*Full Stack Developer*

*Oct 2017 – Dec 2019*

- Reviewed project specifications and designed technology solutions that met client expectations 100% of the time.
- Collaborated with development and business groups on 2 major releases and closed 30+ tickets.
- Led three interns and delivered an in-house mobile app to reduced hardware product testing time by 70%.
- Automated future resource allocation schedule for managers based on previous user data saving \$120K in total costs.

**TIDY HOMZ**

Aurangabad, India

*Junior Software Engineer*

*July 2016- Sept 2017*

- Investigated issues in prototype development process and applied automation techniques, bolstering efficiencies by 80%.
- Adhered to high-quality development standards while delivering solutions 20% faster than assigned targets.

## ACADEMIC PROJECTS

**Touchless Time-Clock:** Angular, Flask, MongoDB, OpenCV

Developed computer vision based web application amidst the pandemic situation to replace traditional swipe in cards. This system uses facial recognition and deep learning to identify members of an organization to clock-in or clock-out of the system without touching.

**Self-Driving Car using Behavioral Cloning:** Python, Keras

Trained a deep learning model using User's driving behavior to autonomously drive in an open-source self-driving simulator.

**Augmented Random Search:** Python

Solved the Half-Cheetah model to perfectly run in mujoco environment using the ARS algorithm which performed 15 times faster as compared to traditional deep reinforcement algorithms.

**Style Transfer using Deep Neural Networks:** Python, PyTorch

Built a style transfer model using CNN to create a new target image by separating the style and content of a given image.

**Finding Donors for CharityML:** Python, SciKit-Learn

Identified different supervised machine learning algorithms to determine the best potential donors for this charity organization and also reduce the overhead cost of sending mails.

**Machine Translation:** Python, Keras, NLP

Created a deep neural network that functions as part of an end-to-end machine translation pipeline. This pipeline accepts English text as input and returns the respective French translation.

**Path planning using A\* Algorithm:** Python, ROS

Implemented the A\* algorithm in the ROS environment to find the optimal path given a default start location and goal position.

## SKILLS

**Languages:** Python, C++, Typescript, Java.

**Databases, Cloud, OS:** MySQL, MongoDB, AWS SageMaker, Docker and Kubernetes.

**Web Development:** HTML, CSS, JavaScript, Bootstrap.

**Frameworks, Technologies:** Angular, ROS, Ionic, Flask, OpenCV, TensorFlow, Spring Boot, PyTorch.

## EXTRACURRICULAR

- Awarded First place at *Inclusive Launch Cohort* organized by Blackstone Launchpad and TechStars at University at Buffalo.
- Won First place at Get Seeded competition organized by Blackstone Launchpad and TechStars at The University at Buffalo.
- Received *Pat on the Back* award in recognition for developing and rolling out a web-based finance application at Hella.