

# HARIHARAN NAGASUBRAMANIAM

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## EDUCATION

### SRM Institute of Science and Technology

B. Tech Computer Science and Engineering, GPA – 7.89/10.00

Chennai

July 2017 - Jun 2021

Coursework taken: Data Structures, Algorithm Design Analysis, Object Oriented Programming, Operating Systems, Python Programming, Theory of Computation, Machine Learning, Pattern Recognition Techniques, Artificial Intelligence

## SKILLS

**Programming Languages and Scripting:** Python, Java, C, C++, MATLAB, Bash, SQL, Selenium

**Operating Systems:** Windows, Linux

**Technical Tools:** Azure Platform, Google Cloud Platform, Git VCS, TensorFlow, Pandas, Django, Kivy, Tkinter, Pygame

## EXPERIENCE

### Dun & Bradstreet Technologies

Chennai

#### Data Scientist Intern

Jun 2021 – Present

- Analyzing the Corporate Social Responsibility and Sustainability metrics for over 40,000 companies and implemented multiple web crawler scripts using libraries such as Selenium and BeautifulSoup in Python for scraping ESG Data.
- Implementing NLP models to analyze the ESG relevance in the extracted text and to classify the polarity of the contents.

### Axiom Consulting

Bangalore

#### Image Analyst Intern

Sep 2020 – Oct 2020

- Assessed and graded the level of damage on the laminates by comparing different pixels on average due to rub tests using Python libraries.

### Axiom Consulting

Bangalore

#### Software Engineer Intern

Nov 2019 – Dec 2019

- Designed a Signup and Login page to authenticate and authorize the users in Django Framework.

## PROJECTS

### Object Detection for Autonomous Vehicles

Jan 2021 – Mar 2021

- Identified and localized vehicles in real time with the Faster-RCNN algorithm.
- Implemented using Python, TensorFlow, and OpenCV with Transfer Learning using TensorFlow Object Detection API.

### Snake Game and Gym Environment with DRL

Jun 2020 – Sep 2020

- Developed a model free self-learning snake game and two distinct environments in the Gym Library from OpenAI with Deep Q-Networks under Reinforcement Learning.
- Implemented the Bellman Equation for Deep Q-Learning using Python, TensorFlow, Keras, Convolutional Neural Network, NumPy, and OpenCV.

### Text Classification for Sentiment Analysis

Dec 2019 – Feb 2020

- Trained a Binary Classifier model to analyze and classify positive, negative, or neutral tweets from Twitter Data.
- Developed using Python and Tweepy for Twitter API to connect and obtain the data and used TensorFlow, Keras, NumPy, and TensorBoard for training and classification.

### Full-Stack Chat Application

May 2018 – Jul 2018

- Established a Client-Server connection with Socket Programming to initialize information exchange within a server.
- Developed a full-stack web application using Django, JavaScript, and CSS, and Kivy for software application interface.

### Automatic Web Data Transfer

Nov 2017 – Jan 2018

- Designed and implemented a Selenium Bot to inspect dynamic elements for scraping and transferring data from one web source to another.

### Tic-Tac-Toe Game

Dec 2016 – Feb 2017

- Developed a 3x3 and 5x5 tic-tac-toe game that assesses all possible outcomes from the current move and performs the most optimal move with ID3 Tree Algorithm for decision making.

## CERTIFICATIONS

- Google IT Automation Certificate** offered by Google, Coursera Platform, **Jun 2021**
- Microsoft Certified: Azure Fundamentals** offered by Microsoft, **May 2021**
- DeepLearning.AI TensorFlow Developer Certificate** offered by DeepLearning.AI, Coursera Platform, **Sep 2020**
- Machine Learning** Course by Stanford Online, Coursera, **Sep 2020**
- Google Cloud Platform Big Data and Machine Learning Fundamentals** offered by Google Cloud, Coursera Platform, **Jun 2018**

## AWARDS

- Secured 1<sup>st</sup> place in school and won gold medals for two consecutive years in 17<sup>th</sup> and 18<sup>th</sup> **“National Science Olympiad”** with 95.75 and 98.53 percentile scores, Science Olympiad Foundation, **2013-2014**
- Secured 1<sup>st</sup> position in school amongst 300 students; was among top 1 percentile in state in **“Byju’s Think and Learn Challenge”**; awarded Samsung Galaxy Tab worth 20000 INR & scholarship to Byju’s Coaching Institution, **Jan 2014**