Jay Trivedi

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OBJECTIVE

A highly motivated individual passionate about cutting edge technology, seeking an internship opportunity where I can apply my skills and contribute to the industry by solving real world problems and developing new products.

EDUCATION

University of South Florida — *Tampa, USA*
Master's in electrical engineering May 2023 — *Expected, may2023*
Gandhinagar institute of Technology — Ahmedabad, *India*
Bachelor *of Engineering in Electronics & communication Engineering - GPA: 3.56 / 4* — *June 2021*

SKILLS

- C, C++, Python
- OpenCV, NLP, NumPy, SciPy, Scikit-learn, Pandas
- TensorFlow, Keras, PyTorch
- Deep Learning, Neural Networks
- MATLAB
- Supervised and Unsupervised learning, Reinforcement learning
- Wireless Network Technologies - GSM, FDMA, CDMA, TDMA, LTE, 5G.

PROJECTS

- **Obstacle detection using Computer Vision** **October 2021**
  Built an obstacle avoidance algorithm with Python and OpenCV, raspberry pi camera was used for capturing image and using the algorithm each individual pixel was classified whether it belongs to an obstacle.
- **Logistic regression for classification** **February 2022**
  In this project I applied logistic regression on small dataset with limited number of features to identify which binary class each sample belongs.
- **Maze solving Robot** **August 2021**
  A maze solving robot was built using reinforcement learning algorithm where feedback was given in the form of reward function and the goal of robot is to maximize accumulation of rewards to solve the maze.
- **Developed online software for shortest path finding** **September 2021**
  An online software was built using Dijkstra algorithm for finding shortest route to the destination which getsupdated every 5 minutes according to the traffic situations.
- **Data logger** **May 2020**
  Project was based on microcontroller for measuring parameters, which keeps track of all the data that are configured and provides it directly to the end user over cloud server.

ACTIVITIES

- Coordinated National level technical festival event called 'Line following robot' held at my college.
- Volunteered an event called 'laser warfare' where me and my team coded Arduino Uno, alongside managing the event.

CERTIFICATIONS

- Complete python bootcamp from Udemy.
- Completed Introduction to ‘Internet of Things’ and embedded systems of university of California, Irvine from Coursera.
- Completed ethical hacking from scratch from Udemy.