Harsha Gowtham Bondada

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EDUCATION

California State University Long Beach — Long Beach, California
Master's in Computer Science — August 2021 - Exp. May 2023

Jawaharlal Nehru Technological University — Hyderabad, India
Bachelors in Computer Science, GPA: 3.6 — August 2017 - July 2021

Relevant Coursework: Advanced Analysis of Algorithms, Advanced AI, Machine Vision, Pattern Recognition, Component-Based Software Development, Data Mining, Database Systems, Software Engineering for the World Wide Web, Data Science, Data Warehousing, Probability, Statistics.

TECHNICAL SKILLS

- **Programming/ Scripting/ Mark-up Languages**: Python, sql, C/C++, git, HTML, CSS, Javascript.
- **ML Libraries/ Packages**: Numpy, Pandas, Scikit-Learn, OpenCV, Matplotlib, Tensorflow.
- **OS & Environment**: Windows, macOS.
- **Frameworks /Database /cloud**: Tableau, Django, MySQL, AWS.

PROJECTS

Augmented virtual sketching using Single Shot Detector (SSD) and Multiple Linear Regression
October 2021 – December 2021

- Palm detection and Hand landmarks were used to perform virtual sketching.
- Chosen ML framework named "Mediapipe" and used Single Shot Detector (SSD) Algorithm which is made up of VGG-16 network to perform Palm Detection.
- The hand landmarks are detected by using Multiple Linear Regression.
- Technologies: Python, Numpy, Pandas, Mediapipe, OpenCV.

Airbnb Price Prediction — January 2021 – June 2021

- Evaluated the price for a new Airbnb hotel based on location, amenities, rooms, reviews, etc. across the USA.
- Performed feature selection and engineering and experimented with various machine learning approaches in predicting Airbnb listing prices.
- Technologies: Python, Sklearn, MATPLOT visualization.

Valid Spot — January 2020 – April 2020

- Developed an algorithm to solve parking problems that are increasingly occurring in large cities with more vehicles on the road. Video files are captured and stored in .yml files by the algorithm.
- Implemented Gaussian to the .yml file to map the parking lot onto the cascade classifier.
- Technologies*:* Python, YAML, Numpy, OpenCV.

Real Time Face Recognition and Detection — September 2019 – October2020

- Designed an algorithm to recognize the person from an image captured through a live webcam using LBPH Recognizer.
- Optimized accuracy with Haar Cascade Classifier in the framework of face recognition.
- Technologies: Python, OpenCV, Numpy.

LEADERSHIP EXPERIENCE

Rotary Club of Chilakaluripet (NGO) — Chilakaluripet, Andhra Pradesh
Volunteer — January 2018- July 2021

- Led and coordinated 5 major Projects during COVID and distributed daily provisions for private school teachers to 15 beneficiaries.