Hitesh Reddy Buereddy

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Education

New Jersey Institute of Technology

Master of Science in Computer Science (4/4 CGPA)

September 2023 - May 2025 New Jersey, USA

Sreenidhi Institute of Science and Technology

Bachelor of Science in Computer Science (3.51/4 CGPA)

July 2019 - June 2023

Telangana, India

Skills and Frameworks

Languages: C, C++, Python, Java, HTML, CSS, JS, MySQL, R language, Assembly language, Arduino, Embedded C,GIT. Applications/ Technologies/Tools: Neural Networks, Computer Vision Machine Learning, AutoCAD, Proteus, Informatica, Django, Django Web framework, kaggleStarUML, GoogleColab, Jupyter NoteBook, Visual Studio Code, Bootstrap, Unified Testing Automata, Slicer 3D, Insomnia, GitHub.

Projects

Little Lemon Website | ReactJS, Django, Djangowebframework

January 2024

- Developed a website using Django created APIs for authentication and created a menu for the little lemon restaurant.
- This project is part of my Coursera course, taught by META.

Cardiopathie | Python, Jupyter Notebook

February 2023

- Implemented a fully automated two-step neural framework consisting of a U-net and an end-to-end trained Spatial-Configuration net on Contrast-Enhanced Cardiac CT (NIFTI) image dataset in TensorFlow to segment seven different heart substructures.
- Achieved an overall accuracy (dice similarity score) of 87.63%.

Agriprotech | Python, HTML, Jupyter Notebook

April 2022

• Implemented using CNN (Convolutional Neural Network) and integrated into a website. Predicts plant disease based on plant leaf characteristics and suggests medicine and pesticides accordingly. Got an accuracy of 89.9%.

Speech Emotion Recognition | Python, Jupyter Notebook

January 2022

- Implemented a neural network i.e., a multi-layer perceptron that takes audio as input and can detect the mood of a person.
- Optimized the log-loss function to classify eight different emotions. The average model's accuracy achieved was 87.9%.

Social Distance Detection | Python, Jupyter Notebook

May 2020

- Detects whether people are maintaining social distance in public areas, which was implemented using YOLO and CNN to calculate the distance between people. RGBD Images are captured using Intel RealSense Camera.
- Achieved an accuracy of 82.3% and was deployed in my college's cafeteria and dining hall.

Cocinero | Arduino, Embedded C

November 2019

- Cocinero is a sandwich maker, which can make a sandwich with a frequency of 2 sandwiches per 5 minutes without any human interference.
- The Arduino is used as the microcontroller. Embedded C for coding the robot. All the robot packages are written in C++.

Extracurricular Activities

- Worked as class representative for two years.
- Worked as a Technical Coordinator and Technical Head for two consecutive years for ROBOVEDA.
- Member of Working body for ROBOTICS CLUB in Sreenidhi.
- Organizing Head for ECA(Emerging Computer Arena) club
- Participated in RURATHON(Hackaton) in rural development.
- Participated in Inter College chess competition
- Mentored twelve juniors in the robotics club.
- Solved around 150 problems in leetcode.

Certificates

- Machine Learning A-Z[™]: Hands-On Python & R In Data Science.
- AWS Cloud Foundation
- Meta Full Stack Engineer Certificate
- AWS Machine learning Foundations
- Neural Networks and deep learning