

RAHUL S HOSKERI

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EDUCATION

- **University Of California, Merced** Merced, CA
Master of Science in Electrical Engineering and Computer Science; GPA: 3.8/4.0 Aug. 2019 – Present (May. 2021)
 - **Relevant Courses** Advance Algorithm Design and Analysis, Parallel Computing, Advance Intelligent Systems, Distributed Computing, Computer Visison.
- **Visvesvaraya Technological University** Bengaluru, India
Bachelor of Engineering in Computer Science and Engineering; GPA: 3.45/4.0 Aug. 2014 – June. 2018
 - **Relevant Courses** Design and Analysis of Algorithm, Data Structures, Unix and Shell Programming, Object-Oriented Programming, Database Management Systems, Professional Ethics.

PROJECTS

- **Tracking Misplaced Items in the Autonomous Retail Store. (CPS-IoT Week 2020)**
Computer Vision | Sensor Data Analysis | Object Classification
 - **Objective** Using *multi modal sensor fusion technique*, successfully classified the misplaced item with an accuracy of **70%** in worst case scenarios and enhanced object classification.
- **Optimizing High Performance Computing (HPC) Application Using Neural Network.**
High Performance Computing | Neural Networks | <https://github.com/Rahul664/OpenFuelCell>
 - **Objective:** Employing **multi layer perceptron neural network model** improved the performance of solid oxide fuel cell application simulation by approximately **98% from 120 minutes to 1.7 minutes**.
- **Handwritten Optical Character Recognition.**
Cross Correlation Measure | <https://github.com/Rahul664/OCR>
 - **Objective:** Used **Optical Character Recognition (OCR)** to recognise and translate **tulu kannada to classical kannada characters**.
 - Used Cross-Correlation algorithm for recognition and obtained **82.85% accuracy**
- **Facebook Messenger Weather Bot.**
Chat Bot | Open Weather API | <https://bit.ly/2xdBKl1>
 - **Objective:** Interact with user to fetch location and retrieve the weather at that location. Used **Open Weather map API with PHP curl HTML request, response with chat fuel bot platform**. This could be integrated as the Amazon Alexa skill.

EXPERIENCE

- **University Of California, Merced** Merced, CA
Research Assistant | Sensor Data Analysis Jun 2020 - Present
 - **Objective:** "**Object Classification** through feature comparison of plot, obtained from weight sensor data of an autonomous store (AiFi)".
- **University Of California, Merced** Merced, CA
Teaching Assistant | Calculus | Approximation Jan 2020 - May 2020
 - Teaching Calculus course, enhanced my understanding of the mathematical concepts used for machine learning like **approximation and optimization** for real world problems.
 - Responsible for tutoring, conducting quizzes and grading, which emphasises my **group management and coordinating skills**.
- **Wipro Technologies Ltd** Bengaluru, India
Project Engineer | Business Data Analysis | Data Interpretation Jul 2018 - Jan 2019
 - **Responsibilities:** Worked for Marsh and McLennan insurance project, **analyzing the insurance report data** using the SAP Business Objects to study the business growth and report to help make the business decisions.
 - Implemented **Python script to clean csv file and convert to excel** file for better readability and reduced the manual effort that was used before.

PROGRAMMING SKILLS AND CERTIFICATIONS

- C++, Python, Java.
- **"Programming and Data Structure and Algorithm using Python"**
from Indian Institute of Technology, Madras (IITM) (NPTEL) Reg No: NPTEL17CS28S2190163