RAHUL S. **HOSKERI**

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Education

University of California, Merced | *5200 N Lake Rd, Merced, CA 95343*

M.S. IN ELECTRICAL ENGINEERING AND COMPUTER SCIENCE [GPA: 3.8/4.0]

COURSEWORK: ADVANCE ALGORITHM DESIGN AND ANALYSIS, PARALLEL COMPUTING, ADVANCE
INTELLIGENT SYSTEMS, DISTRIBUTED COMPUTING, COMPUTER VISISON.
2019 - Present (2021)

Visvesvarya Technological University, India | *MVJ College, Bengaluru,560067*

BACHELOR OF ENGINEERING IN COMPUTER SCIENCE AND ENGINEERING [GPA: 3.45/4.0 OR 71%]

COURSEWORK: DESIGN AND ANALYSIS OF ALGORITHM, DATA STRUCTURES, UNIX AND SHELL
PROGRAMMING, OBJECT-ORIENTED PROGRAMMING, DATABASE MANAGEMENT SYSTEMS,
PROFESSIONAL ETHICS.
2014 - 2018

Experience

University of California, Merced *Merced, California-95340*

RESEARCH ASSISTANT (SUPERVISOR: PROF.SHIJIA PAN) *May 2020 - Present*

- Researching on the topic of "Object Classification through feature comparison of plot obtained from weight sensor data of an autonomous store setup (AiFi)".

University of California, Merced *Merced, California-95340*

TEACHING ASSISTANT *Jan 2020 - May 2020*

- Teaching assistant for Calculus course, which emphasizes applying calculus concepts for real world problems like approximation and optimization, helping me better understand the mathematical concepts used for machine learning.
- Responsible for tutoring, conducting quizzes and grading, which emphasises my group management and coordinating skills.

Wipro Technologies Ltd *Electronic city, Bengaluru,IN-560100*

PROJECT ENGINEER *Jul 2018 - Dec 2018*

- 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 decsions.
- Implemented Python script to clean csv file and convert to excel file for better readability and reduced the manual effort that was used before.
- **Skills Used: SAP Business Objects, Python scripting.**

Projects

TRACKING MISPLACED ITEMS IN THE AUTONOMOUS RETAIL STORE. (CPS-IoT WEEK 2020)

- Using multi modal sensor fusion (vision, weight and location information) technique, tried to address a niche problem of misplaced inventory in autonomous retail store setup to prevent aid object detection.
- The model , successfully classified the misplaced item with an accuracy of **70%** in worst case scenarios

OPTIMIZING HPC APPLICATION USING NEURAL NETWORK.
(`https://github.com/Rahul664/OpenFuelCell`)

- Employing **multi layer perceptron neural network model** improved the performance of solid oxide fuel cell application simulation (High Performance Computing application).
- The model , successfully reduced time of simulation by approximately **98% from 120 minutes to 1.7 minutes**, increasing performance by reducing computation intensity.

HANDWRITTEN OPTICAL CHARACTER RECOGNITION. (`https://github.com/Rahul664/OCR`)

- Used **optical character recognistion (OCR)** to recognize and translating tulu kannada to classical kannada characters.
- **Came up with unicodes to reperesent kannada characters** (as there is no support for kannada charcters in MATLAB) and there are very few works in this niche field.
- Used Cross-Correlation algorithm for recognition and obtained **82.85% accuracy**

FACEBOOK MESSENGER WEATHER BOT. (`https://bit.ly/2xdBKl1`)

- Created a messenger bot to interact with user and fetch location and retreive 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.

Skills

Programming	Python, C/C++, Matlab, Java, Php, JavaScript, SQL
Libraries	numpy, scikit-learn, TensorFlow
Tools	Teradata, SAP Business Objects, Informatica
English Proficiency	TOEFL: 101

Certifications

2017   **"Programming and Data Structure and Algorithm using Python",** from Indian Institute of Technology, Madras (IITM) (NPTEL) Reg No: NPTEL17CS28S2190163

2016   **"Introduction to Modern Application Development" ,** from Indian Institute of Technology, Madras (IITM) (Reg No: NPTEL16CS2323120133)

2018   **"Ethical Hacking workshop",** from Indian Institute of Technology, Madras (IITM)