

RAHUL S. HOSKERI

Merced, CALIFORNIA

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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: 3.7/4.0]

2019 - Present (2021)

COURSEWORK: ADVANCE ALGORITHM DESIGN AND ANALYSIS, PARALLEL COMPUTING

Visvesvarya Technological University, India

| MVJ College, Bengaluru, 560067

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

2014 - 2018

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

Experience

University of California, Merced

Merced, California-95340

TEACHING ASSISTANT

Jan 2020 - Present

- 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 managing 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 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.
- Skills Used:** SAP Business Objects, Python scripting.

Projects

Optimizing HPC Application Using Neural Network

(<https://github.com/Rahul664/OpenFuelCell>)

- Challenge:** Reduce the computation time and improve performance of Solid oxide fuel cell application, which is a high performance computing (HPC) application used for solid oxide fuel cell simulation.
- Action:** Used supervised Multi layer perceptron model to predict the output parameters for given input parameters trained on 100,000 data sets.
- Result:** Successful in reducing the simulation time from 120 minutes to 1.7 minutes (approx), which increases performance by reducing the computational intensity.

Baseball Elimination (<https://github.com/Rahul664/Baseball-Elimination>)

- Challenge:** Design an algorithm to predict the teams that will be eliminated or not if the point table at any instance of league is given.
- Action:** Designed algorithm based on Edge disjoint path application Max Flow Min Cut algorithm which serves the best for this kind of scenario.
- Result:** Successful in predicting the teams that are eliminated or not based on the given point standings in league which could benefit teams for making strategies for the remaining league.

Handwritten Optical Character Recognition (<https://github.com/Rahul664/OCR>)

- Title:** "Recognize and Translate Tulu Kannada Characters to Classical Kannada Characters Using OCR."
- Challenge:** No support provided in MATLAB software for Kannada character display. No existing model for translation of the dialect proposed with substantial accuracy.
- Action:** Came up with the combination of Unicode in MATLAB to represent the Kannada characters for the translated Tulu characters.
- Result:** Using the Cross-Correlation algorithm successfully created the MATLAB simulation for the optical character recognition and translation with accuracy of 82.85%.

Facebook Messenger Weather Bot (<https://bit.ly/2xdBK11>)

- Objective:** Create a messenger bot that can interact with user and collect the location data and fetch the weather for the chosen location.
- Implementation:** Using the open weather map API for the weather information and with the help of PHP curl html request, response and chat fuel bot platform. I was able to achieve my goal to build my first bot.
- Scope:** This bot could be integrated as a Amazon Alexa skill.

Skills

Programming Python, C/C++, Matlab, Java, Php, JavaScript

Libraries numpy, scikit-learn

Tools Teradata, SAP Business Objects

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)