

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: 3.7/4.0]

2019 - Present (2021)

COURSEWORK: ADVANCE ALGORITHM DESIGN AND ANALYSIS, PARALLEL COMPUTING

Visvesvarya Technological University, India

| MWJ 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 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 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>)

- 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 from 120 minutes to 1.7 minutes**, increasing performance by reducing computation intensity.

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

- Implemented **edge disjoint path Max Flow Min Cut algorithm** to predict whether the team is eliminated or not, if the points table at any instance is given. This could benefit teams for making strategies for the remaining league matches.

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

- Used **optical character recognition (OCR)** to recognize and translating **tulu kannada to classical kannada characters**.
- **Came up with unicodes to represent kannada characters** (as there is no support for kannada characters 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/2xdBK11>)

- Created a messenger bot to interact with user and 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.

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)