

RIDDHI PATEL

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EDUCATION

UNIVERSITY OF SOUTHERN CALIFORNIA

MAY 2023

Master of Science, Computer Science

CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY

JULY 2017-MAY 2021

Bachelor of Technology, Computer Engineering

CGPA - 9.54/10.00

Merit Scholarship, Ranked 3rd in University

TECHNICAL SKILLS

Languages: Python, C, Java, SQL, NoSQL, C++, HTML, CSS, JavaScript

Database Technologies: Firebase Realtime Database, MongoDB

Libraries: Sklearn, Pandas, NumPy, Matplotlib, TensorFlow, Keras, Beautiful Soup, Seaborn, Statsmodels

Platforms and Tools: Jupyter Notebook, AWS, Latex, Eclipse, Netbeans, Cisco Packet Tracer, GitHub, VS Code

WORK EXPERIENCE

GRIDSCAPE SOLUTIONS, FREMONT, CALIFORNIA

DECEMBER 2020-MAY 2021

SOFTWARE ENGINEER INTERN

- Developed a site analysis portal for new solar site projects using **PythonFlask**; automated 30% of work done by employees
- Designed **Machine Learning** model using *Random Forest* algorithm to return top 5 sites that are already completed and similar to new site to be implemented based on various parameters
- Researched on different search algorithms such as *Random Forest*, *Catboost* and studied company's working to analyze parameters to optimize output by 40%

FINALYTICS COMMERCIAL TECHNOLOGIES, MUMBAI, INDIA

APRIL 2020-AUGUST 2020

SOFTWARE ENGINEER INTERN

- Implemented complete backend API for a react native frontend movie quiz game based on IMDB using **Python Flask** with 90% code coverage as a team of 3 developers
- Created a database for above application in **MySQL** along with web-scraping IMDB website
- Utilized **AWS Lambda & AWS RDS** in order to make server less backend

F5 SYSTEMS, VADODARA, INDIA

MAY 2019-JUNE 2019

WEB DEVELOPER INTERN

- Engaged in company's on going project of an architectural firm website. Contributions include website development using HTML & CSS, designing website, content writing, customer interaction

PUBLICATIONS

QUESTION ANSWERING CHATBOT USING MEMORY NETWORKS

RESEARCH CHAPTER

2021

- Published in handbook of Research on *Applied Data Science and Artificial Intelligence in Business and Industry* by IGI Global (DOI:10.4018/978-1-7998-6985-6.ch019) [[LINK](#)]

PROJECTS

SUPERMARKET BILLING SYSTEM.

SEPTEMBER 2020

- Developed supermarket billing system to generate order reports efficiently reducing human efforts in C++

QUESTION ANSWERING CHATBOT

JANUARY 2020

- Generated memory networks model on **SQuAD** database with a accuracy of 94.21%
- Tested state of the art **neural network** on conversational flow, understanding workflow, and conversational steps with an accuracy of 89.63%

WORD POWER MADE EASY

SEPTEMBER 2019

- Developed a **Flutter** app for Word Power Made Easy book by Norman Lewis, used by over 10 million students giving competitive exams to enhance their vocabulary; leading a team of 5 accomplished the project in under 4 months

TIC-TAC-TOE

OCTOBER 2018

- Developed a multiplayer tic-tac-toe game with GUI using socket programming and Java Swing; functionalities include facility to join from different computers and updating each players response with minimum delay

SMART IRRIGATION SYSTEM using IoT

DECEMBER 2018

- Developed using **Arduino** and **ThingSpeak** in order to automatically water plants based on soil humidity

HONORS & AWARDS

- Winner at **INC 2018-19** for Smart Irrigation System based on IoT. Awarded a scholarship of INR 20,000
- 2nd Prize in poster presentation** at Computer Society of India RSC'20 for a paper on Smart irrigation system based on IoT and Data Mining

INVOLVEMENT

- Hosted **Google Developers DevFest** 2019-Vadodara, India attended by over 400 developers every year
- Presented *Comparative analysis of Question / Answering systems* poster involving concepts of NLP, SQuAD and Memory Networks at **Computer Society of India RSC'20**
- Conducted an informational **ML session** by collaborating with Google Developers Group Vadodara, India to impart knowledge in new 60 ML enthusiasts
- Joined as a media strategist in **NinjaTalks Podcast** to scout honorable guests and writing script for recording
- Interpreted more than 100 questions from a famous TV show and developed a Google Assistant Trivia game.