

MIHIR PATEL

Portfolio

📞 951-573-2968

✉ mihirjagdishbhai.patel@email.ucr.edu

🌐 [LinkedIn](#)

🐙 [Github](#)

Riverside, CA

Education

University of California, Riverside

Sept 2021 – Dec 2022

Master of Science in Computer Science

Riverside, California

Relevant Coursework: Big Data, Deep Learning, Advance Software Testing, Spatial Technologies

Gujarat Technological University, Ahmedabad

Aug 2017 – June 2021

Bachelor of Technology in Computer Engineering

Gujarat, India

Projects

Parking Space Management

Technologies Used: OpenCV, Tesseract, Python, Flask

GTU, Ahmedabad

- Spearheaded the development of a system to detect vacant parking spots by leveraging OpenCV and implemented an efficient data management strategy by utilizing MySQL to store parking space information.
- Acquired license number using OCR and real-time display of empty spots on a web page using Flask framework.
- Reduced overall cost by 70% by eliminating the need for built-in ANPR cameras.

Burnol Search Engine

Technologies Used: Java, Spring Boot, MongoDB

UC, Riverside

- Developed multi-threaded crawler that extracts data of Wikipedia pages and performs MapReduce enabling seamless indexing of web pages, ensuring optimal search performance.
- Utilized NoSQL database MongoDB to store the indexed data and Hadoop to efficiently process search queries to display the top 10 ranked web pages matched with queries.

Twitter Data Analysis - FIFA 2022

Technologies Used: Spark, NLP, ML algorithms

UC, Riverside

- Crawled 14GB of tweets data using SNScrape, then filtered data and assigned sentiments using TextBlob library.
- Pipelined stages like tokenizing, finding TF-IDF, and fitting it in the Logistic Regression model that gave 89% accuracy.
- Tested spark queries runtime on 60MB, 350MB, and 3GB of tweets stored on Resilient Distributed Dataset.

LetsChat

Technologies Used: Python, Django, Nginx, Daphne, Redis

Personal

- Developed an asynchronous web application enabling users to engage in real-time chats within various rooms.
- Employed Daphne and Nginx for ASGI to establish a web socket, allowing dynamic communication within active rooms.
- Incorporated essential features such as registration, user authentication, room creation, and chat functionality.

Restaurant Ratings

Technologies Used: Python, Django, React, Mapbox

Personal

- Featured adding new restaurant, submit ratings, and display all restaurants within 25 miles of radius from user location.
- Implemented REST API with Django Rest Framework for seamless data access between React front-end and back-end.

Technical Skills

Scripting and Web Development: Python, JavaScript, Ajax, jQuery, TypeScript, AngularJs, React, Node.js

Data Management and Cloud Services: SQL, NoSQL, Hadoop, Spark, PostgreSQL, MySQL, MongoDB, AWS

Frameworks and Tools: Django, Flask, Spring Boot, Git, Nginx, Unicorn, Daphne, Docker, Agile, Scrum, Unit Testing

ML and Visualization: Pandas, NumPy, Scikit, Random-Forest, Naive Bayes, PowerBI, GeoPandas, Folium

Experience

University of California, Riverside

Jan 2022 – Dec 2022

Design and Analysis of Algorithm Grader

- Managed the grading process and generated test cases for assignments.
- Interacted and resolved challenges encountered by students.

Certificates

Lyft Back-End Engineering Virtual Experience Program on Forage - July 2023

[NEW] Ultimate AWS Certified Cloud Practitioner - 2022

Data Engineering Essentials using SQL, Python, and PySpark

Python Data Structures