Mihir Patel

Portfolio

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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, login, logout, 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

Languages and Web Development: Python, Java, JavaScript, React, Node.js, Express.js
Data Management and Cloud Services: SQL, NoSQL, Hadoop, Spark, PostgreSQL, MySQL, MongoDB, AWS
DevOps and Infrastructure: Git, Jenkins, Nginx, Gunicorn, Daphne, Docker, Linux, Agile, Scrum
Frameworks: Django, Flask, Spring Boot

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.
- Offered assistance to students, helping them comprehend and resolve challenges encountered .

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