MANAV RAVI PAREKH

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EDUCATION

Bachelor of Technology in Computer Science With Data Science **2024 - 2027**
SVKM's Dwarkadas J. Sanghvi College of Engineering
Diploma in Information Technology **2021 - 2024**
SVKM's Shri Bhagubhai Mafatlal Polytechnic

SKILLS

- **Technical:** C, C++, Java, Python, PHP, C#, React, Node, Express, Flask, OpenCV, YOLO, Tensorflow, Flutter, Firebase, MySQL, Data Structures.

- **Tools:** Git, GitHub, Roboflow, Postman, Jupyter, Figma.

EXPERIENCE

JP Morgan Chase & Co. *Remote*
Corporate Analyst Development Program July 2024 - August 2024
Apprenticeship

- Completed a job simulation, gaining insights into the Corporate Analyst Development Program in about 2 weeks.

- Prepared a visualization dashboard using Tableau, improving data clarity for stakeholders by 25%.

- Documented and analyzed a business process, identifying 3 key areas for improvement, increasing operational efficiency.

- Devised a PowerPoint presentation to communicate data-driven insights, effectively increasing team decision-making speed by 15%.

Dcyber Techlab *Remote*
Web Developer Intern June 2023 - July 2023

- Spearheaded the development of a responsive website using ReactJs, improving user accessibility within the planned timeframe of 1 month of internship

- Designed mobile-first websites using progressive enhancement techniques, catering to a growing mobile audience enhancing quality in every 7 days.

- Led a performance analysis project that integrated automated testing tools, reducing manual testing hours by 30% and enabling faster deployment cycles, allowing for more agile iterations and feature releases.

PROJECTS

Dynamic API Load Balancer with Predictive Scaling (Ongoing):

- **Currently Working on:** Developed a dynamic API load balancer using Spring Boot, integrated with Hibernate, and MySQL database, successfully tested API endpoints.
- **To be completed:** To Implement Round Robin and Least Connections algorithms, optimizing traffic distribution..
- Integrating TensorFlow for predictive scaling to automate instance scaling, with expected performance gains of up to 20%.
- Building a React.js dashboard for real-time monitoring, containerizing the application using Docker, deploying with Kubernetes, and performing load testing via JMeter.

SevaMeds:

- Implemented a user-friendly NGO application using Flutter, facilitating donations of medicine, blood, clothes, and books with 90% user satisfaction increased gradually over maintenance of app.
- Implemented a YOLO and OpenCV-based ML model to detect medicine names from uploaded images, improving donation accuracy by 40%.
- Implemented Firebase for a robust backend solution and utilized ngrok for secure local testing, improving development efficiency by 25%. Also used Postman for API testing.
- Troubleshot donor communication via email notifications, which can enhance donor engagement by 30%.

Movie Recomendation System:

- Completed a machine learning-based movie recommendation system with 85% prediction accuracy. Utilized Jupyter Notebook for debugging and prototyping, identified and resolved issues efficiently.
- Built a Python-based user-friendly interface, resulting in an improvement in user interaction rates.

Website For Dcyber Techlab :

- Developed an adaptive website leveraging React.js, improving user accessibility. Acquired and enhanced skills through technical discussions and received support from the Head of Project over the course of 1 month
- Optimized website performance, improving load time by 40% by improving image sizes and which can increase user retention by 20%.

Hotel Reservation System : An Ecommerce Website

- Built an e-commerce website with room booking modules, which can enable over 1,000 reservations according to room availability.
- Integrated a feature for calculating bills based on members and generating downloadable PDFs, which can easily improve user convenience by 35%.

Quiz Management :

- Created a PHP-based website for quiz management, streamlined quiz participation for many students.
- Automated scoring and result generation, reduced manual grading efforts by 70%.

COURSES

- **Mastering Data Structures Algorithms using C and C++ on Udemy**
- **Google Digital Marketing**
- **Python Data Analysis by Michele Vallisneri on Linkedin Learning**