Aditya Rakate

LinkedIn Profile | 91+ 9503305023 | rakateaditya2002@gmail.com | GitHub Profile

SUMMARY

Motivated Graduate Software Developer skilled in full-stack development, problem-solving, and building scalable applications. A quick learner and team player dedicated to delivering impactful software solutions.

SKILLS

Programming Languages	**:** Core Java, J2EE with Servlet, Python
Web Technologies	**:** HTML5, CSS3, Bootstrap, JavaScript (Basic), React, Angular
Database Technologies	**:** Oracle-SQL, MySQL, Mongo DB
Frameworks	**:** Spring Boot with REST API, Hibernate, Spring MVC, Node.js
Technical	**:** Database Management System, Object Oriented Programming, Cloud Computing, MS Excel, Git

Education

- **Zeal College of Engineering and Research** **2020-2024**
  Bachelor Of Engineering in Information Technology CGPA: 8.14
- **H.V. Desai College** **2018-2020**
  Board Of Higher Secondary Education Percentage: 62.31

PROJECTS

1. E-commerce Shopping Cart application using Spring Boot

- Developed a fully functional e-commerce shopping cart application using Spring Boot, with over 20+ dynamic web pages powered by Thymeleaf templates, enabling users to browse products, manage their cart, and place orders.
- Implemented role-based access control for 2 user roles (Admin and Customer) using Spring Security, ensuring Secure authentication, authorization, and seamless login/registration flows for 100+ users.
- Designed a scalable backend architecture with 10+ RESTful APIs, integrated JPA repositories for efficient database operations, and optimized features like product management, category filtering, and order tracking

2. IOT Based Autonomous Vehicle, Using OpenCV and IOT component. (Final Year Project)

- Developed an IoT-based autonomous vehicle prototype using Raspberry Pi, Arduino UNO, and OpenCV, achieving 90% accuracy in object detection and traffic sign recognition.
- Implemented machine learning algorithms on Raspberry Pi 3B+ for image processing, training over 1,000 images under various lighting conditions to optimize recognition accuracy.
- Programmed Arduino to control vehicle movement with precise directional commands (forward, backward, left, right), improving navigation accuracy by 85%.

3. Advanced Driver Assistance System (ADAS) using YOLOv8.

- Developed an Advanced Driver Assistance System (ADAS) using YOLOv8 for real-time object detection, achieving 95% accuracy in identifying vehicles, pedestrians, and traffic signs.
- Trained convolutional neural networks (CNNs) on 2,000+ labelled images to detect and classify key objects in driving scenarios.
- Implemented features such as relative distance measurement, object counting, and proximity alerts, enhancing vehicle safety and situational awareness by 40%.

CERTIFICATIONS

- Java Full Stack Certification [Seed Infotech Ltd]
- The Complete Python Bootcamp – Udemy

EXPIRENCE

Code Clause Data Science Intern (April 2023 – May 2023)

Brain Tumor Detection using Machine learning and data science with the help of python libraries.

- Using Python libraries Numpy and Pandas for Data manipulation, achieving 89% accuracy in tumor classification.
- Matplotlib for creating visualizations of data, such as plots, histograms, bar charts, and scatter plots .

Achievements

- Achievement Certification in **Smart India Hackathon 2024 (SIH)** - IoT based Autonomous Vehicle.
- Achievement Certification in **Avishkar Project Competition 2024** – ADAS System using YOLO-V8.