Sameer Jadhav

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**EDUCATION**

Savitribai Phule Pune University, Pune, India **Pursuing**

## Master of Technology; Computer and Information Technology

Shri Vile Parle Kelvin Mandal Institute of Technology, Dhule Graduated Aug 2022

## Bachelor of Technology; Information Technology CGPA: 8.59/10

# TECHNICAL SKILLS

**Programming Languages:** JAVA, SQL,Python, Shell Scripting, C++, HTML, CSS, JavaScript, Spring Boot

**Tools & Framework:** ReactJS, HTML, CSS, JavaScript, NodeJS, RESTful APIs, Git, GitLab, Docker, CI/CD pipelines, AWS, Microsoft Azure

# PROFESSIONAL EXPERIENCE

**Google Summer of Code (GSOC) Open-source Contributor at CVAT Organization May 2024 – Aug 2024**

* Developed a quality control consensus feature in CVAT, allowing multi-pass annotation and merging using an enhanced Datumaro algorithm with optimized matching logic, increasing labeling efficiency by 20%.
* Designed and implemented RESTful API endpoints and a React-based user interface to manage consensus jobs, supporting seamless integration into CVAT workflows.
* Collaborated with mentors and the open-source community using Git, GitHub issue tracking, and CI/CD pipelines, ensuring adherence to industry standards for version control and quality assurance.

**Omdena Research Program (Machine Learning Research Intern) May 2023 – Nov 2023**

**Multilingual license Plate Detection System**

* Spearheaded the development of a multilingual license plate detection system, working with a cross-functional team of 5 data scientists and engineers, resulting in a 25% improvement in detection accuracy using **TensorFlow**, **OpenCV**, and **Kera’s**.
* Developed low-latency, high-performance SaaS applications, reducing API response time by 30%, using **Python** and Deployed it using AWS cloud services.
* Implemented advanced machine learning algorithms, including region-based detection and OCR pipelines, enhancing recognition accuracy by 20% for Arabic, French, English, and other languages.
* Enhanced system design, achieving 98% accuracy in recognizing license plates across different languages and regions.

**Rackson’s IT Developers, Pune, Maharashtra (Web - Development Intern) Nov 2022 – Mar 2023**

* Proficient in front-end technologies HTML, CSS, JavaScript, ReactJS, and Git. Utilized to optimize website performance and enhance user experience, leading to an 80% increase in website traffic
* Designed an interactive front-end using the React JS framework, integrated with backend services, improving user engagement by 15% and reducing load times by 20% through RESTful services, Python, and MongoDB.
* Streamlined development processes by adapting to new DevOps tools such as Docker and CI/CD, reducing development and testing time by 30% and scaling systems to support a 40% increase in user load.

# ACADEMIC PROJECTS

## Java-Based Project Management System B. Tech Final Year

* Developed a comprehensive project management system using Spring Boot and React, enabling effective project creation, collaboration, and tracking.
* Implemented a user invitation system to enhance team collaboration and streamline project workflows, designed an issue tracking module with advanced tracking and resolution features, allowing users to identify and address project roadblocks efficiently.
* Secured the application using Spring Security and JSON Web Tokens (JWT), implementing robust user authentication and access control.

## Smart Traffic Control Management System B. Tech Pre-Final Year

* Designed an AI-based traffic management model leveraging TensorFlow, Kera’s, and OpenCV to reduce urban congestion. Achieved a 50% reduction in travel time and a 25% improvement in traffic pattern detection accuracy.
* Implemented a convolutional neural network (CNN) for vehicle detection and classification, achieving high accuracy in recognizing different vehicle types under varying lighting and weather conditions.
* Optimized model performance by employing hyperparameter tuning and data augmentation techniques, ensuring robustness across diverse traffic scenarios.

# ACHIVEMENTS

* Hacker Rank 3-star Gold Badge in problem solving in Data Structure, Algorithms, SQL, and Python
* Developed an AI-driven interview system using Generative AI and large language models, leading to project selection in the prestigious Google Gen AI program, competing among 200+ innovative AI solutions globally.

# PROFESSIONAL CERTIFICATIONS

• Oracle Cloud Data Management (IZ0-1150-23) • Oracle Cloud Infrastructure Fundamentals • IBM AI Foundation Certified

• AWS Machine Learning Certified, • Microsoft Azure AI-900, • Google Data Analytics Professional Certificate

• AWS Cloud Practitioner • Postman API Fundamentals Certified