Sai Charan Lenkallapally

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Education

Saint Louis University   **Saint Louis,United States**
Masters in Computer Science –GPA:3.9/4   *June 2023-May 2025*
- Relevant Coursework: Algorithms, Web Development, Software Programming, Databases, Artificial Intelligence, Machine Learning, Object-Oriented Programming, Data Structures.

Sreenidhi Institute of Science Technology   **Hyderabad,India**
Bachelor of Technology in Computer Science (GPA: 3.3/4.0)   *June 2018 – July 2022*

Experience

SDET — Darwinbox Digital Solutions Pvt Ltd   **July 2022-July 2023**
- Automated HRMS modules (Recruitment, Payroll, Onboarding) using Selenium, Java, and Rest Assured, including API, UI.
- Enhanced application performance from **68% to 85%** and reduced bugs in regression releases. Developed automated test scripts for feature validation, supporting Java-based architectures.
- Identified and implemented test strategies aligned with unique functionality requirements.
- Engaged in Agile processes, collaborating with project managers and developers to refine requirements and improve delivery.
- Integrated CI/CD pipelines using Jenkins for efficient test execution and continuous improvement.

SDE Intern — Darwinbox Digital Solutions Pvt Ltd   **Febraury 2022-July 2022**
- Developed a web application using HTML, CSS, JavaScript (front end) and Node.js, Express.js, MongoDB (back end) for seamless travel package, customer, and booking management.
- Integrated Ajax for login, AWS SNS for messaging, AWS S3 for image storage, JWT for secure authentication, and Bcrypt for password hashing.
- Implemented booking analytics, enabling data-driven insights and efficient decision-making.

ML Summer Intern — GoalStreet   **May 2020 – July 2020**
- Developed and deployed multiple ML models (Logistic Regression, Random Forest, SVM, MLP) for warfarin dosage prediction, showcasing comprehensive machine learning expertise.
- Implemented cross-validation and hyperparameter tuning, boosting model accuracy and achieving superior results with Random Forest and MLP models.
- Integrated the best-performing models into a user-friendly Gradio interface and hosted on Hugging Face, enabling real-time dosage predictions and demonstrating the impact of ML in precision medicine.

Projects

Full Stack E-Commerce MERN Application   **January 2024 – March 2024**
- Developed and containerized a full-stack e-commerce platform using MongoDB, Express.js, React, and Node.js with Docker and Kubernetes orchestration for seamless deployment across environments.
- Designed and optimized database schemas and RESTful APIs, implementing JWT authentication, MongoDB queries, and cloud storage integration for media assets.
- Implemented CI/CD pipelines with automated testing and Linux-based server configuration, reducing deployment times by 65% while ensuring system reliability.
- Created an admin dashboard with comprehensive monitoring and management capabilities, including CRUD operations for products and users with role-based access controls.

Automatic Emotional Analysis of Textual Comments   **September 2021 – October 2021**
- Developed a machine learning system to classify emotions (e.g., happy, sad, angry) in textual comments and feedback.
- Performed end-to-end data collection, preprocessing, feature extraction, model training and evaluation, and deployment for real-time sentiment analysis.
- Provided insights on customer sentiment, enabling improved user experiences and data-driven decisions for business growth.

Air Canvas Using Python-OpenCV   **November 2021 – January 2022**
- Built a computer vision system with Python and OpenCV to detect and track user gestures for controlling a virtual canvas.
- Implemented modules for image acquisition, gesture detection and tracking, mapping gestures to canvas actions, and UI visualization.
- Optimized system performance and scalability, ensuring real-time responsiveness and efficient resource utilization.

Technical Skills

- **Web Development:** HTML, CSS, JQuery, Node.js, React.js, Express, Yii,Redux
- **Cloud and AI:** Machine Learning, AWS
- **Databases:** SQL, MongoDb.
- **Programming Languages:** Python, Java, C, PHP, JavaScript
- **Testing:** Pytest, Docker, CircleCI, Jenkins, Selenium, Rest API, TestNG.
- **Version Control System:** GIT

Coding Profiles

- 5 * problem python solver in Hacker rank.
- Solved 180+ problems in Leetcode.

Certifications

- Introduction to Database Management Systems, NPTEL, secured (Score: 97%), June 2022.
- Programming in Java, NPTEL, secured (Score: 89%), December 2019.

Extracurricular Achievements

- Conducted a Machine Learning Workshop in Adastra Club, As an active participant in the Adastra club, I was able to explore and enhance my skills through hands-on projects and group discussions with other likeminded individuals.
- Participated in NSS events and performed activities like blood donation camps, Plantation drives and also environmental awareness, Visits to orphanages, old age homes and rehabilitation centers to solve problems.
- Lead Volunteer in BachPan Prayas for about the last two years in academics and performed a lot of activities for poor people and old-age people.
- Secured Fifteen rank in Sreenivasa Ramanujan Mathematics Test in Telanagana State in 2016.