SRI SAMHITHA BOBBA

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SUMMARY

Software Engineer with expertise in DevOps, specializing in managing Kubernetes clusters, designing CI/CD pipelines, and automating workflows using tools like Terraform, Ansible, and Jenkins. Experienced in building scalable AWS infrastructure, optimizing DevOps processes, and driving system performance through advanced deployment strategies.

SKILLS

Programming Languages: Java, Python, C, Dart, R	**Front-End Technologies:** HTML, CSS, JavaScript
DevOps Tools: Jenkins, Docker, Kubernetes, Agile methodologies, Azure, Kafka	**Databases:** MySQL

Other Tools: AWS, Microsoft Project, Excel, Tableau, Power BI, Linux Shell Scripting, Terraform, Test automation, Selenium, Jira, JSON

Key Capabilities: Data analytics, Cypress, Key performance indicators, data reporting, GitHub

EXPERIENCE

WIPRO LIMITED   May 2022 -Jul 2023
Software Engineer

- Led the deployment phase of Ericsson Centralized Self-Organizing Network (ECSON), focusing on Ericsson Network Management (ENM), and collaborated with a team of 9 developers to build and integrate applications for telecommunications infrastructure.
- Managed complex three-tier deployment process, including Common, Mediation, and Frequency Layer Management, achieving an 80% increase in **deployment** efficiency and effectiveness.
- Implemented **DevOps practices, CI/CD pipelines, Kubernetes, and Jenkins**, reducing deployment timelines from weeks to hours while leveraging cloud-native technologies and containerization for scalable, resilient applications.
- Proficient in executing General Acceptance Testing **(GAT)** for ECSON, utilizing **Jira and Selenium** to design and implement automated testing frameworks. Achieved a 15% improvement in system performance and quality standards across various telecom networks.
- Executed ECSON deployments within a Linux environment, integrating **QA processes** and **advanced shell scripting** to enhance system reliability and performance. Automated manual processes with **Python,** achieving an 89% reduction in deployment times.
- Enhanced software functionality and improved telecom system adaptability by integrating Python into various development tasks.

Software Project Intern   Feb 2022 - Apr 2022

- Designed and developed a web-based food ordering system, integrating testing with **JUnit** to ensure robust backend operations, a responsive frontend interface, and efficient database management using **Java, HTML, CSS, and SQL**.

ACADEMIC PROJECTS

Credit Card Fraud Detection Using Machine Learning   Aug 2024- Dec 2024

- Project identify the best algorithm for detecting fraudulent credit card transactions using machine learning.
- Compared Logistic Regression, Naive Bayes, KNN, and Decision Trees using metrics like accuracy, precision, recall, and F1-score. Preprocessed data by standardizing and addressing class imbalance with SMOTE oversampling for fair evaluation.
- Found that Logistic Regression outperformed others, achieving 94.6% accuracy, 97% precision, and an F1-score of 0.945, making it the best algorithm for fraud detection due to its high precision and low false positives.

Emotion-Based Movie Recommendation System   Aug 2023- Dec 2023

- Developed an emotion-based movie recommendation system using Convolutional Neural Networks (CNNs) for facial expression detection and Collaborative Filtering for personalized recommendations, addressing challenge of subjective movie selection.
- Achieved 87.72% accuracy in emotion classification and a 90% user testing success rate, while revising user engagement by 30% and boosting system precision and recall by 25% through a user-friendly interface.

Drowsy driver detection by using deep learning techniques   Oct 2021 – Mar 2022

- Implemented deep learning techniques such as Convolutional Neural Networks (CNNs) and Long Short-Term Memory (LSTM) networks to detect driver fatigue by analyzing facial expressions and eye movements, attaining 85% accuracy.
- Projected a 43.22% reduction in road accidents through simulations, enhancing road safety and preventing drowsy driving.

Calories calculator by using parametrized data as an input   Jan 2021- May 2021

- Constructed a Calorie calculator using a 10,000+ food item database with 95% accuracy in calorie counts. Increased user engagement by 40% and tracking efficiency by 25% with meal tracking and dietary recommendations. Added data visualization for 30-day calorie trends to support informed dietary choices.

CERTIFICATIONS

- Orchestrator for RPA Developers level 1 and level 2 UI path (Diploma of Completion)
- PCAP: Programming essentials in python from Cisco.
- Analytics Certification from Google
- Data Science Ethics (authorized by University of Michigan)

LEADERSHIP AND COMMUNITY ENAGEMENT

- **Associate, TEDx Illinois Tech** – Assisted in organizing and managing TEDx events, coordinating logistics, speakers engagement.
- **Career Fair Associate, Illinois Tech** – Coordinated career fair logistics, contacted employers, and managed student check-in.
- **Event Organizer, Student Government Association** – Led event planning, logistics, and execution to enhance student engagement.

EDUCATION

Illinois Institute of Technology   Aug 2023-May 2025
Master of Computer Science |Major in computer science| GPA: 3.50/4

Vel Tech University, Chennai   Jun 2018-July 2022
Bachelor of Technology | Computer Science and Engineering| GPA: 3.45/4