K SAI CHARAN

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| PROFESSIONAL SUMMARY |
| As a highly enthusiastic and detail-oriented B.Tech graduate, I am ideally positioned to excel as a Manual Tester, aligning perfectly with the requirements of this role. My passion for technology and problem-solving has equipped me with a robust analytical mindset essential for identifying and resolving complex issues. I am adept at reviewing requirements and creating comprehensive test plans and test cases, leveraging my foundational understanding of software development. I bring strong communication, analytical, and teamwork skills, enabling effective collaboration with developers and business analysts to clarify requirements and track defects. My experience includes applying theoretical knowledge to real-world problems, ensuring thorough execution of manual test cases and meticulous documentation of bugs for high-quality software delivery. |

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| **EDUCATION** |  |  |
| **2020 - 2024** | B.Tech in **ECE** at **Sreenivasa Institute of Technology and Management Studies** | **CGPA**: 8.24/10 |
| **2018 - 2020** | Class 12th, State Board at **Sri Chaitanya Junior College** | **CGPA**: 9.01/10 |
| **2017 - 2018** | Class 10th, State Board at **Sri Chaitanya Techno School** | **CGPA**: 9.7/10 |

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| Technical Proficiencies |  |
| **Programming & Scripting** | SQL |
| **AI and ML Expertise** | Software Testing Methodologies, QA Lifecycle, CI/CD basics | |
| **Cloud and Version controls** | JIRA, Bugzilla, Git, Postman | | |

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| PROJECTS |
| |  |  | | --- | --- | | **AI-Based License Plate Recognition System** | | | * Designed and deployed a **real-time vehicle license plate recognition system** using **YOLOv8**, **OpenCV**, and **PyTorch** for automated vehicle identification. * Achieved **95% accuracy** with an optimized processing speed of **0.2 seconds per frame**, ideal for **traffic surveillance** and **security enforcement**. * Integrated a **Tkinter-based GUI interface** for efficient **user interaction**, enabling seamless access to **scanned results** and **stored vehicle metadata**. * Utilized **Deep Learning**, **Computer Vision**, and **Model Optimization & Quantization Techniques** to enhance system performance. | | Automated Attendance Tracking Telegram Bot | | | * Developed a **Telegram Bot** using **Selenium WebDriver** and **Python** to automate attendance tracking from college websites, hosted on **AWS EC2**. used **Git and GitHub** for **version control** and **collaborative code management**. * Automated login sessions and data extraction by implementing **web scraping** and **session handling** techniques. * Delivered **Real-time attendance notifications** to students via Telegram using **messaging APIs**. * Improved efficiency by **eliminating manual processes**, ensuring **secure**, **accurate**, and **automated data retrieval**. | | IoT-Based TDS & pH Meter for Water Quality Monitoring | | | * Engineered an **IoT solution** using **Arduino, TDS sensors, pH probes**, and **ESP8266 module** to measure TDS and pH levels in water. * Designed the system to ensure safe drinking water by detecting contaminants and chemical imbalances using **real-time monitoring**. | | Discord Bot for Clash of Clans Clan Stats | |  |  | | --- | | * Built and deployed a **Discord Bot** using **Discord API**, **Python**, and **MongoDB** to provide **real-time clan statistics** and updates. * Integrated **RESTful APIs** to fetch live game data, deployed on **AWS EC2** with **GitHub** for **code versioning** and **project tracking.** * Applied **Cloud Computing**, **API Integration**, **Bot Development Best Practices**, and **Version Control (Git)** to ensure **scalable** and **robust performance.** | |

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| **CERTIFICATIONS & ACHIEVEMENTS** |
| |  | | --- | | * Full-Stack Development Certification (in progress): Currently learning Python Full-Stack Development, covering Frontend & Backend Technologies. * Research Publication: Published a paper on Automatic License Plate Detection in an International Research Journal of Modernization in Engineering Technology and Science. * IoT & Arduino Internship: Completed internships at Innovate Intern & InternShala, gaining expertise in IoT-based automation. * Event Management: Organized tech events like Cursor 2024 and managed farewell parties as a class representative. | |

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| SKILLS |
| * Communication Skills * Analytical Thinking * Flexibility and Adaptability * Teamwork and Collaboration * Leadership and Event Management |

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| **HOBBIES AND INTERESTS** |
| * Playing Chess, Cricket and Badminton * Exploring new technologies, AI tools like ChatGPT, LLMs through Hugging Face, and solving logical challenges. * Reading tech blogs, research papers, and exploring case studies in modern innovations. * Experimenting with Open-Source Projects and GitHub collaborations. * Listening to tech podcasts and watching documentaries on futuristic technologies. |

I hereby declare that the information furnished above is true and correct to the best of my knowledge and belief.

**Signature**  
K SAI CHARAN