K SAI CHARAN

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| PROFESSIONAL SUMMARY |
| I am an enthusiastic and detail-oriented B.Tech graduate in Electronics and Communication Engineering with a strong passion for technology, problem-solving, and software development. I have a solid foundation in Linux systems, Python scripting, cloud computing, and modern development practices. I’ve worked on hands-on projects involving web automation, AI/ML integration, backend development, and IoT systems, applying theoretical knowledge to real-world problems. I have experience building automation tools, deploying applications on AWS EC2, and using Python, Selenium, and APIs to develop efficient solutions. Proficient in Git and Linux, and familiar with Docker and CI/CD basics, I bring strong communication, analytical, and teamwork skills. I’m eager to contribute to a dynamic organization, build scalable and innovative solutions, and continue learning in the fields of cloud, AI, and software engineering. |

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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** | Python, Java, JavaScript, HTML, CSS, SQL, OOP Concepts |
| **Technologies** | Git, GitHub, Selenium, Postman, VS Code, Agile/Scrum, SDLC | |
| **Tools** | AWS EC2, Amazon Linux, Linux basics, CI/CD basics, Machine Learning,  PyTorch, YOLOv8 | | |

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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