

# 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.

## EDUCATION

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

## TECHNICAL PROFICIENCIES

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|------------------------------------|--|
| <b>Programming &amp; Scripting</b> | Python, Java, JavaScript, HTML, CSS, SQL, OOP Concepts                               |
| <b>Technologies</b>                | Git, GitHub, Selenium, Postman, VS Code, Agile/Scrum, SDLC                           |
| <b>Tools</b>                       | AWS EC2, Amazon Linux, Linux basics, CI/CD basics, Machine Learning, PyTorch, YOLOv8 |

## 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.

### AI Based Smart Resume Tailoring Assistant via Telegram

- Built an AI-powered Telegram bot using **Python** and **Google Gemini** to automatically tailor .docx resumes based on job descriptions.
- Enables users to send job descriptions via Telegram and automatically receive customized resumes aligned with the job role, skills, and keywords.
- Integrated Google Gemini for intelligent content rewriting, role-specific bullet generation, and grammar enhancement to optimize resumes for Applicant Tracking Systems (ATS).
- Hosted on **AWS EC2** for continuous availability and efficient processing; used Telegram Bot API for real-time interaction and document delivery.

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### **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

### **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