

# Jakkani Sree Taraka Vamsi Krishna

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github.com/SreeTarak2

## Professional Summary

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Motivated and detail-oriented undergraduate student pursuing a Bachelor's degree in Artificial Intelligence and Machine Learning. Strong foundation in programming and cybersecurity concepts including penetration testing and web application security. Passionate about solving real-world problems using innovative technologies across domains such as AI, cybersecurity, and software development. Eager to contribute technical and analytical skills to dynamic teams in both research and industry settings.

## Education

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**Sri Vasavi Engineering College**, BS in Artificial Intelligence and Machine Learning Oct 2022 – Apr 2026

- GPA: 8.69 / 10.0
- **Coursework:** Machine Learning, Ethical Hacking, Data Structures and Algorithms, Web Development

**Sri Prakash Junior College**, Intermediate (MPC) 2020 – 2022

- CGPA: 9.28 / 10.0
- Percentage: 93%
- **Subjects:** Mathematics, Physics, Chemistry

**Sri Prakash Vidyaniketan**, Secondary School Certificate (SSC) 2019 – 2020

- Marks: 546 / 600
- Percentage: 91%

## Projects

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- **Image Steganography Tool (Python)** – Implemented an LSB-based image steganography application to securely embed and extract encrypted text within image pixels. Ensured minimal perceptual distortion and high payload capacity.
- **Audio Steganography System (Python)** – Developed an audio steganography system using LSB and phase encoding to embed sensitive data in .WAV files. Achieved imperceptibility and tested robustness against basic signal transformations.
- **RagChatbot (ReactJS, Node.js, Python)** – Built a voice-enabled conversational AI using Retrieval-Augmented Generation (RAG), ReAct reasoning, and knowledge graphs for intelligent query resolution. Integrated OpenAI Whisper for real-time speech-to-text via WebSockets, vector database for contextual retrieval, and MongoDB for session management. Deployed modular backend (Node.js + Python) and interactive ReactJS frontend with microphone input and dynamic transcription feedback.

## Technologies

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**Languages:** Python, Java, JavaScript, SQL

**Cybersecurity Tools:** Kali Linux, Wireshark, Burp Suite, Nmap, Metasploit, John the Ripper

**Web Development:** HTML, CSS, JavaScript, React.js (Beginner)

**Tools & Soft Skills:** Git, GitHub, Linux (Ubuntu/Kali), VS Code, Problem-Solving, Team Collaboration

## Certifications

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- **JavaScript Foundations Professional Certificate** – Issued by Mozilla (via OpenEDG/FreeCodeCamp)
- **Cybersecurity Internship Certificate** – Issued by Edunet Foundation in collaboration with AICTE
- **Cybersecurity Certificate** – Awarded by BlackBucks (Online Certification Program)