

# ADAPA SAI SANTOSH

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## Professional Summary

A curious and resilient B. Tech Computer Science student specializing in AIML, passionate about building AI-driven systems. Eager to apply my technical expertise to real-world projects that demand problem-solving, creativity, and meaningful impact.

## Technical Skills

**Languages:** Python, R, HTML/CSS, SQL

**Developer Tools:** VS Code, Oracle Live SQL, Replit, Google Colab, Jupyter, RStudio

**Technologies/Frameworks:** Pandas, NumPy, TensorFlow, PyTorch, OpenCV, Scikit-Learn, Matplotlib

**Soft Skills:** Problem Solving, Critical Thinking, Adaptability, Effective Communication

## Internships

### Krify Software Technologies

*AI/ML Intern*

May 2025 – June 2025

On-Site, Kakinada

- Built a real-time object detector using OpenCV and SSD models.
- Created a speech-interactive Chatbot with persona memory, handling 100+ dynamic interaction flows.
- Integrated mic + text input with plans for UI and persona switching.

### AWS & EduSkills (AICTE Certified)

April 2025 – June 2025

*AI/ML Virtual Internship*

Remote

- Completed AWS-hosted AI/ML internship with hands-on projects on cloud-based ML workflows.
- Gained exposure to SageMaker, model training, deployment pipelines, and cloud computing fundamentals.

## Projects

### Real-Time Object Detection System | Python, Haar Cascade, SSD with Caffe Model

June 2025

- Built a real-time detection pipeline using OpenCV's DNN module with SSD MobileNet, processing live webcam feed at 15 FPS on standard hardware.
- Implemented object classification across 20 Pascal VOC classes, using bounding boxes, labels, and confidence thresholding (> 20%) for filtering predictions.
- Preprocessed and optimized frames via blob conversion and resizing, enabling consistent model input and reducing per-frame inference time to 65–70ms.
- Designed a modular workflow integrating pre-trained Caffe model files, ensuring reproducibility and easy deployment.

### Voice-Interactive Chatbot | Python, Gemini API, SpeechRecognition, gTTS

May 2025

- Engineered a multi-modal chatbot supporting both mic and text input, maintaining response latency under 1.5 seconds during live interaction.
- Integrated Gemini API with dynamic persona switching and sarcasm-based dialogue, increasing engagement and personalization across 3+ configurable personas.
- Implemented speech-to-text and text-to-speech modules with SpeechRecognition and gTTS, achieving > 92% transcription accuracy in varied accent testing.
- Developed a lightweight web interface with persona memory support, reducing user drop-off in testing by 30% compared to baseline text-only chat.

## Education

### GITAM University

Aug. 2022 – May 2026

Bachelor of Technology in CSE AIML — CGPA: 7.90

Visakhapatnam, AP

## Certifications

- Accenture Nordics - Software Engineering Job Simulation (Forage)
- CodeBeat Internship
- NPTEL Data Science for Engineers
- Introduction to TensorFlow for AI, ML, DL (Coursera)

## Hobbies

- Watching movies and listening to music with an interest in narrative and artistic expression
- Bodybuilding and strength training