

# Sai Teja Yaruva

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[portfolio](#)

## Profile Summary

Self-taught and highly motivated Software Developer with a strong foundation in backend development, RESTful APIs, system design, and full-stack web applications. Experienced in building scalable products from scratch using Python, Flask, MySQL, and modern web technologies. Passionate about building real-world tools that solve problems on a scale.

## Education

G. Pulla Reddy Engineering College

Kurnool, Andhra Pradesh

**Bachelor of Technology in CSE with specialization in Artificial Intelligence and Machine Learning** Dec 2021-May 2025

CGPA: 7.81/10.0 (no backlogs)

## Projects

**URL Shortener with QR Code Generator** | Python, Flask, MySQL, SQL Alchemy, HTML/CSS, Render

[GitHub Repository](#)

Jun 2025

- **Live Demo:** [urlshortener-qrgenerator.onrender.com](https://urlshortener-qrgenerator.onrender.com)
- Developed a full-stack web application to shorten long URLs and generate QR codes, enabling fast sharing and mobile accessibility.
- Implemented Base62 hashing for unique short URL generation and set up redirection using Flask routes.
- Integrated MySQL with SQLAlchemy ORM to persist URL mappings with timestamps, ensuring fast lookups and unique constraints.
- Hosted the app publicly on Render with environment-based DB configuration and production-ready deployment.
- Designed frontend to display the shortened link and QR code, with plans for adding analytics (clicks, location, device).

**StudyMate (Voice Assistant) – Friday** | Python, CustomTkinter, SpeechRecognition, Pytsx3, PyWhatKit, Google Custom Search API

[GitHub Repository](#)

Apr 2025

- Developed an AI-powered desktop voice assistant with a full-screen GUI using **CustomTkinter**, enabling natural language interaction through **speech recognition and synthesis**.
- Integrated a custom **local knowledge base** and **Google Custom Search API** to answer academic queries, provide summaries, and deliver real-time responses.
- Implemented features like **voice-controlled YouTube playback**, time reporting, joke-telling, and semantic follow-up question handling with contextual memory.
- Added advanced features including **theme toggle (dark/light)**, **chat history reset**, **repeat last answer**, and robust **error handling** for seamless user experience.
- Engineered multi-threaded voice output and listening system for smooth real-time interaction, while supporting both **typed and voice inputs**.

## Technical Skills

**Programming Languages:** Java, Python, SQL

**Web & Backend Development:** Flask, HTML, CSS, JavaScript

**Machine Learning Libraries & Models:** K-Means (Clustering), Regression Models, Classification Models

**Databases:** MySQL, SQLite

**Software Engineering Concepts:** System Design, SDLC (Software Development Life Cycle)

**Tools & Platforms:** Git, GitHub, Render, Railway, VS Code, Postman, Power BI

**Other:** REST API design, Deployment, SQLAlchemy (ORM), QR Code Generation, Speech Recognition

## Certifications

- IBM Machine Learning With Python, Coursera-View [Credentials](#)
- Microsoft Power BI Data Analyst Professional, Coursera-View [Credentials](#)

## Hobbies

- Youtuber
- Video Editing
- Drawing
- Writing Novels