

Manam Sai Karthik

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Summary

Final-year B.Tech Computer Science student passionate about web development and AI/ML solutions. Experienced in building scalable web apps using Python, Flask, JavaScript, and MySQL. Proficient in applying ML models for real-world use cases. Strong foundation in CS fundamentals and a proven track record through internships and hackathons.

Education

Computer Science and Engineering – 7.72 CGPA <i>B.Tech at Sir C. R. Reddy College of Engineering</i>	Expected 2026
MPC – 6.28 CGPA <i>Sri Prakash Jr. College</i>	2020–2022
SSC – 9.47 CGPA <i>Madhuri Vidyalaya EM High School</i>	2020

Technical Skills

- **Programming Languages:** Python, Java(basics), C++ (basics)
- **Frameworks:** Flask
- **Web Technologies:** HTML, CSS, JavaScript(basics)
- **Database:** MySQL, MongoDB
- **Tools:** Git, GitHub, VS Code
- **Artificial Intelligence & Machine Learning:** Gen AI, Machine Learning Algorithms

Internships

Artificial Intelligence Internship at SkillDzire • Worked on development and optimization of learning models, focusing on data preprocessing, training, and evaluation.	May 2024 – July 2024
Web Development Internship at TechSonIx Solutions • Completed a 4-week internship through the TechSonIx Employability Program. • Built a responsive personal portfolio website using HTML, CSS, and JavaScript. • Practiced Agile methodologies and used Git/GitHub for version control. • Strengthened frontend development, debugging, and UI/UX design skills.	May 1 – May 30, 2025
MERN Stack Internship at Smart Internz • Developed and maintained full-stack web applications using the MERN stack, focusing on building responsive user interfaces and backend APIs. Collaborated with the team to troubleshoot issues and enhance overall application performance.	May 19-July 14, 2025

Projects

YouTube Transcript Summarizer

Description: Built a tool that extracts and summarizes YouTube video transcripts and identifies timestamps for user-defined or auto-extracted keywords.

- Implemented text summarization using frequency-based sentence scoring.
- Added keyword timestamp extraction with smart topic detection.
- Designed UI to handle both custom and auto keyword tracking.

Tech Stack: Python, YouTube Data API, NLTK, requests, NLP, heapq

Voice Recognition and Speech-to-Text Python Application

Description: Created a web application that converts speech (via uploaded or mic-recorded audio) into text using Google's Speech Recognition API.

- Developed a dual input system: upload or live-record audio.
- Integrated Google API for natural speech recognition.
- Delivered quick transcription output with a clean, responsive interface.

Tech Stack: Flask, SpeechRecognition, HTML/CSS, JavaScript

Breast Cancer Prediction

Description: Developed a machine learning-powered web application that predicts whether a tumor is benign or malignant using 30 diagnostic features.

- Integrated a trained Random Forest Classifier using Joblib.
- Created a responsive front-end to collect real-time user input.
- Delivered accurate classification with user-friendly feedback (Benign/Malignant).

Tech Stack: Python, Flask, Scikit-learn, Pandas, HTML/CSS

To-Do List Web App with MySQL

Description: Designed a CRUD-based web app for managing personal tasks/notes with search and edit functionalities backed by MySQL.

- Built secure MySQL integration using environment variables.
- Implemented full CRUD features: create, read, update, delete.
- Enabled dynamic search for title/content filtering.

Tech Stack: Flask, MySQL, HTML/CSS

Certifications / Achievements

Certified in Python Programming in HackerRank.

Certificate of Participation – Pitch On Pitch: An Innovation Challenge. 2024

Completed E-Commerce Certification Program – Flipkart Grid. 2024

Certified in Web Development – Oneroadmap. 2025

Certificate of Participation – ByteVerse 7.0 Hackathon (Unstop). 2025

AWS APAC – Solutions Architecture Job Simulation (Forage) May 2025

Completed virtual job simulation on cloud architecture and solution design.

Deloitte Australia – Data Analytics Job Simulation (Forage) June 2025

Completed job simulation involving data analysis and forensic technology.

- Created a data dashboard using Tableau.
- Used Excel to classify data and draw business conclusions.

Awards & Activities

- **2nd place – 2023 College Project Expo:** Developed "YouTube Transcript Summarizer".
- **3rd place – JNTU K Project Expo 2023:** Enhanced summarizer with improved UI/features.
- **Tech Fest Participation:** Demonstrated project across various colleges and gained feedback.
- **National-Level Hackathon (Web Dev):** Built real-time E-Learning platform with Flask, MongoDB.
- **"Present You" Competition (JNTUK 2025):** Pitched remote patient monitoring solution.
- **ByteVerse 7.0 Hackathon (NIT Patna):** 24-hour hands-on innovation and teamwork experience.

Leadership & Events

- **Celestra2k24 – Student Coordinator:** Oversaw planning and coordination of the event.
- **Celestra2k25 – Event Coordinator:** Managed timelines, teams, and event execution.