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 – 7.88 CGPA — Expected 2026
B.Tech at Sir C. R. Reddy College of Engineering

MPC – 6.28 CGPA — 2020–2022
Sri Prakash Jr. College

SSC – 9.47 CGPA — 2020
Madhuri Vidyalaya EM High School

Technical Skills

- **Programming Languages**: C, C++, Python, Java
- **Frameworks**: Flask
- **Web Technologies**: HTML, CSS, JavaScript
- **Database**: MySQL, SQL
- **Tools**: Git, GitHub
- **Core**: OOPs, OS, Computer Networks, Database Management System
- **Concepts**: Artificial Intelligence, Machine Learning

Internships

Artificial Intelligence Internship at SkillDzire — May 2024 – July 2024
- Worked on development and optimization of learning models, focusing on data preprocessing, training, and evaluation.

Web Development Internship at TechSonIx Solutions — May 1 – May 30, 2025
- 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.

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) Completed virtual job simulation on cloud architecture and solution design.	May 2025
Deloitte Australia – Data Analytics Job Simulation (Forage) Completed job simulation involving data analysis and forensic technology.	June 2025

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

Accenture Nordics Developer Virtual Experience Program Gained skills in software architecture, cybersecurity, testing, and agile development.	June 2025
Walmart USA Advanced Software Engineering Virtual Experience Built a heap in Java, designed UML and ER diagrams, and solved engineering problems.	June 2025

Coding Profiles

LeetCode	View
HackerRank	View
CodeChef	View
Geeks for Geeks	View
Coding Ninjas	View
GitHub	View

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.