

Manam Sai Karthik

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Professional Summary

Final-year B.Tech Computer Science student passionate about web development and artificial intelligence. Experienced in building scalable web applications using Python, Flask, and MySQL, and applying machine learning models to solve real-world problems. Strong foundation in data structures, algorithms, and software engineering principles. Proven ability to collaborate effectively in cross-functional teams and contribute to innovative, high-impact projects. proven 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 <i>Sri Prakash Jr. College</i>	2020–2022

Technical Skills

- Programming Languages:** Python, Java
- Frameworks:** Flask
- Web Technologies:** HTML, CSS, JavaScript
- Database:** MySQL, MongoDB
- Tools:** Git, GitHub, VS Code, Power BI, Tableau
- Artificial Intelligence & Machine Learning :** Gen AI, Machine Learning Algorithms

Internships

Artificial Intelligence Internship at SkillDzire	May 2024 – July 2024
• Worked on the 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.	
MERN Stack Internship at Smart Internz	May 19-July 14, 2025
• 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.	

Projects

YouTube Transcript Summarizer

Description: Developed a Python tool to summarize YouTube transcripts and extract keyword timestamps using NLP techniques. Built an intuitive UI supporting custom and automated keyword tracking to improve content navigation.

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

Breast Cancer Prediction

Description: Developed a Flask app using a Joblib-serialized Random Forest model for benign/malignant tumor classification from 30 features, with real-time input and prediction display.

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

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

Certifications & Achievements

- Certified in Python Programming in HackerRank.
- Completed E-Commerce Certification Program – Flipkart Grid. 2024
- Certified in Web Development – Oneroadmap. 2025
- Certified in Generative AI and ChatGPT - Self Paced in Greek for Greeks 2025
- AI for Beginners – HP LIFE: Certificate of Completion. 2025
- Data Analytics Workshop – DataValley: Completed a 1-week intensive workshop on data preprocessing, visualization, and analysis using Tableau, and Power BI. 2025

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.
- Code for Bharat Season 2 Hackathon (Tech Masters India, 2025): Participated in a national-level hackathon, collaborating with peers to design and develop innovative solutions.
- Adobe Hackathon (2025): Participated in a company-hosted hackathon, exploring creative solutions in software development and team-driven problem solving.
- Google Cloud Presents Agentic AI Day (2025): Engaged in hands-on sessions and collaborative challenges, exploring advanced AI and cloud-native solutions.

Leadership & Events

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