

# S YASHWANTH RAAJ

B.E. Computer Science Engineering (AI & ML) | Sri Sairam Engineering College, Chennai  
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## EDUCATION

**Sri Sairam Engineering College — Chennai, Tamil Nadu 2025 – 2029**

*B.E. Computer Science Engineering — Artificial Intelligence & Machine Learning* | CGPA: 9.52 / 10.0 (Semester 1)

**Ebenezer Marcus Hr. Sec. School — HSC, State Board 2025**

*Tamil Nadu State Board Score: 90%*

## TECHNICAL SKILLS

**Languages:** Python, Java, C, C++, MySQL

**AI/ML & Data:** Scikit-learn, NumPy, Pandas, Matplotlib, Seaborn, TF-IDF, Logistic Regression

**Web & Backend:** Flask, Streamlit, HTML, CSS, REST APIs, JSON

**Tools & Platforms:** Git, GitHub, VS Code, Jupyter Notebook, Google Colab, Power BI

**Core CS Fundamentals:** Data Structures & Algorithms, Object-Oriented Programming, Database Management Systems

**Cloud & DevOps:** Learning: AWS Cloud Fundamentals, Docker (basics)

**Competitive Programming:** LeetCode (active — arrays, DP, strings, trees) | Skillrack: 1,200+ problems, 2,800+ pts | GeeksforGeeks (Active coding practice focused on Data Structures, Algorithms, and Interview Preparation)

**AI Tools & Productivity:** ChatGPT, Claude, Google Gemini, GitHub Copilot, Prompt Engineering, AI-assisted Research, Technical Documentation, Content Generation, Prompt Engineer

## EXPERIENCE

**InAmigos Foundation — Technical Intern (Remote)** May 2026 – June 2026

Contributed to website development, digital outreach initiatives, and technical project activities supporting the foundation's educational and social-impact programs.

- Developed and enhanced NGO website prototypes using HTML, CSS, and modern web design principles to improve usability and visual appeal.
- Conducted website analysis and identified UI/UX improvements, documenting recommendations to enhance user engagement and accessibility.
- Created AI-assisted website design concepts and collaborated on feature implementation for social-impact initiatives.
- Prepared technical documentation, design reports, and project deliverables while adhering to internship timelines.
- Participated in cross-functional discussions and contributed to digital solutions supporting the foundation's outreach objectives.

## PROJECTS

**Smart Digital Guardian — AI Cybersecurity Web App** | **1st Place, Cyber Sentinel AI Event**

*Tech: Python, Streamlit, Scikit-learn, TF-IDF, Logistic Regression, NLP, Cross-Validation, Dec 2025*

Dataset: Kaggle PhishTank (10,847 samples) — 80/20 stratified train-test split, class balance 52% phishing / 48% legitimate.

- Engineered a real-time phishing URL and scam message classifier, achieving 94.2% accuracy and 92.8% precision on the held-out test set, using TF-IDF vectorisation and L2-regularised Logistic Regression with 5-fold cross-validation.
- Deployed as a Streamlit web app enabling users to submit URLs or text and receive instant threat classification with confidence scores — won 1st Place at the Cyber Sentinel AI Event, Sri Sairam Engineering College.
- Reduced false-positive rate through systematic decision-threshold calibration and iterative feature selection, improving real-world screening reliability.

**Google Play Store Analytics & BI Dashboard**

*Tech: Python, Pandas, NumPy, Matplotlib, Seaborn, Power BI, EDA, Statistical Analysis, Nov 2025*

Dataset: Kaggle Google Play Store Apps dataset (10,841 records, publicly available).

- Cleaned and pre-processed the dataset using Pandas — resolved 100% of null values, duplicates, and schema inconsistencies to establish a reliable analytical foundation.
- Conducted multivariate EDA to surface 5 actionable insights on app rating distributions, install trends, and category-level performance using statistical correlation analysis and Seaborn visualisations.
- Delivered an interactive Power BI dashboard consolidating 8 KPIs into a stakeholder-ready view for app strategy and performance decisions.

**AI Storyteller — Generative NLP Application**

Tech: Python, Hugging Face Transformers, GPT-2, NLP, Jupyter Notebook, Oct 2025

Base model: GPT-2 (HuggingFace hub). Evaluated on 20 self-generated story prompts, scored manually on coherence (1–5 scale).

- Built a generative storytelling application using GPT-2, producing contextually coherent narratives from user prompts — demonstrating practical deployment of transformer-based text generation.
- Compared 6 decoding strategies (greedy, beam search, top-k, top-p nucleus sampling, and temperature variants) across 20 test prompts; nucleus sampling achieved the highest average coherence score — selected as the default decoding strategy.

## HACKATHONS & COMPETITIONS

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### Cyber Sentinel AI Event — Sri Sairam Engineering College, Dec 2025

Team: Budding Coders | 1st Place (AI/ML cybersecurity track)

- Designed, trained, and deployed a phishing detection ML system (94.2% test accuracy) from a raw dataset to a live Streamlit deployment under time-constrained hackathon conditions.

### King Slayer CTF — Havoc 5.0 (OWASP)2025

Rank 9 / 77 — Top 12%

- Solved challenges across web exploitation, binary analysis, and cryptography in a competitive security event — demonstrating applied security analysis under pressure.

### Cyntax Showdown 3.0 — IEEE Reliability Society 2025

Rank 42 / 300 — Top 14%

- Placed in the top 14% of 300 participants in a large-scale intercollegiate competitive programming contest, demonstrating algorithmic problem-solving and data structure proficiency.

## CERTIFICATIONS

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- Generative AI Bootcamp — DevTown | 2026
- Data Analytics: Play Store Data Analysis Bootcamp — Google Developers Group (GDG) / MSIT | 2025
- AI Storyteller: Building Tales with Prompts and Pixels — Microsoft Student Chapter (MSIT) | 2025

## ACHIEVEMENTS & CODING PROFILES

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- **LeetCode:** Active practice (arrays, DP, strings, trees) — [https://leetcode.com/u/Yashwanth\\_Raaj](https://leetcode.com/u/Yashwanth_Raaj)
- **Skillrack:** 1,200+ problems solved, 2,800+ points — consistent across arrays, dynamic programming, recursion, and string manipulation.
- **GeeksforGeeks:** Active coding practice focused on Data Structures, Algorithms, and Technical Interview Preparation — <https://www.geeksforgeeks.org/profile/yashwanth3uf3>
- **GitHub:** 4+ public repositories (AI/ML, Data Analytics, Web Dev) with documented pipelines, dataset references, and evaluation metrics — <https://github.com/yashwanthraaj1207-ops>
- Completed 80+ hours of self-directed technical learning in AI, ML, and Data Analytics through GDG, MSIT, and DevTown bootcamps.
- Active member of IEEE HKN, GDG, and OWASP student chapters across academic and technical events.

## LEADERSHIP & ACTIVITIES

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- **Volunteer Instructor** — NuMinds Tutoring, IEEE HKN (Sri Sairam): delivered C programming foundational sessions on problem-solving logic, syntax, and debugging to junior students under the "Think Logically, Code Powerfully" initiative | 2025.
- **Member** — Budding Coders Club, Sri Sairam Engineering College: contributing to AI/ML team projects, competitive hackathons, and peer knowledge-sharing workshops | 2025–Present.
- Participant — Drone Theory & Calibration Workshop, IEEE Student Branch, Sri Sairam Engineering College | 2025.
- Participant — Three-Day SDG Localisation Immersion, Government of Tamil Nadu / SIRD | 2025.

## RELEVANT COURSEWORK

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**Completed:** Problem Solving & Programming in C, Object-Oriented Programming (Java), Engineering Mathematics, Discrete Mathematics

**In Progress / Upcoming:** Data Structures & Algorithms, Database Management Systems, Operating Systems, Computer Networks, Artificial Intelligence, Machine Learning