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: 9.36 / 10.0

Ebenezer Marcus Hr. Sec. School — HSC, State Board 2025
Tamil Nadu State Board Score: 90%

TECHNICAL SKILLS

Programming Languages: Python, Java, C, C++
AI & Machine Learning: Scikit-learn, Logistic Regression, TF-IDF Vectorization, NLP, Hugging Face Transformers (GPT-2), Cross-Validation
Data Analytics: Pandas, NumPy, Matplotlib, Seaborn, Power BI, EDA, Statistical Analysis
Web Development: HTML, CSS, JavaScript, Streamlit, APIs, JSON
Databases: MySQL
Developer Tools: Git, GitHub, VS Code, Jupyter Notebook, Google Colab
Cloud & DevOps: AWS Cloud Fundamentals (Learning), Docker (Basics), Vercel (Deployment)
AI Productivity Tools: ChatGPT, Claude, Google Gemini, GitHub Copilot
Prompt Engineering: Prompt Engineering, AI-assisted Research, Technical Documentation, Content Generation
Soft Skills: Problem Solving, Analytical Thinking, Logical Reasoning, Teamwork, Communication, Time Management, Adaptability, Continuous Learning

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, improving usability and visual appeal.
- Conducted website analysis and identified UI/UX improvement opportunities, applying research and problem-solving skills to document actionable recommendations for user engagement and accessibility.
- Leveraged ChatGPT and Google Gemini for AI-assisted research and design ideation, translating insights into practical feature concepts for social-impact initiatives.
- Prepared technical documentation, design reports, and project deliverables, maintaining consistency and meeting internship timelines.
- Collaborated cross-functionally with team members on digital solutions supporting the foundation's outreach objectives.

PROJECTS

ResumeLens AI — AI-Powered Resume Analyzer
Tech: Python, Flask, Google Gemini API, HTML, CSS, JavaScript, PDF Processing, GitHub, Vercel
GitHub: https://github.com/yashwanthraaj1207-ops/ResumeLens-AI | **Live Demo:** https://resume-lens-ai-theta.vercel.app

- Built a full-stack AI resume analyzer using Python and Flask, generating an instant ATS compatibility score and structured improvement suggestions for each uploaded resume.
- Integrated the Google Gemini API to power AI-driven resume feedback, job description matching, and missing-skills detection, helping users tailor resumes to specific roles.
- Designed a responsive HTML/CSS/JavaScript frontend with automated PDF report generation, and deployed the full application on Vercel for public access.

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

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

- **Tata — GenAI Powered Data Analytics Job Simulation (Forage)** | June 2026
- **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

- **LeetCode:** Active problem-solving practice in Data Structures & Algorithms — https://leetcode.com/u/Yashwanth_Raaj
- **Skillrack:** 1,300+ problems solved, 4,500+ 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:** 7+ public repositories (AI/ML, Data Analytics, Web Dev) with documented pipelines, dataset references, and evaluation metrics — https://github.com/yashwanthraaj1207-ops
- **Portfolio:** https://my-own-portfolio-yashwanth-raaj.lovable.app — showcasing projects, skills, and technical profile.
- 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

- **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

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