JAYAKISHAN B

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EXECUTIVE SUMMARY

Pre-final year B.Tech IT student with strong interests in Machine Learning, AI, Full-stack Development, and Cybersecurity. Experienced in building data-driven systems and deploying end-to-end solutions through real projects and internships. Motivated to learn continuously and experiment with new technologies and contribute to practical real-world solutions.

EDUCATIONAL QUALIFICATION

Sri Ramakrishna Engineering College - B.Tech Information Technology | 2023 - Present
CGPA: 8.44 (till 5th semester)

SBOA Matriculation and Higher Secondary School - HSC | 2022 - 2023
Percentage: 81.89%

INTERNSHIPS

AI and Cloud Intern - Edunet Foundation and IBM SkillsBuild | Sept 2025 - Oct 2025

- Completed a 4-week AI and Cloud virtual internship, working on end-to-end AI workflows and deployments.
- Executed cloud-based ML pipelines and 5+ hands-on labs, applying end-to-end AI workflows.
- Earned certification through IBM SkillsBuild, covering AI lifecycle, cloud basics, and deployment concepts.

Mobile App Development Intern - Resilience Business Grids LLP | Dec 2024 to Jun 2025

- Deployed a Flutter-based chatbot system supporting media uploads and intelligent responses, handling 100+ user queries during testing.
- Reduced manual support dependency by 30% through chatbot streamlining and structured query flows.
- Built the solution as a scalable internal tool, designed for future cross-platform integration across 3+ platforms.

PROJECTS

SREC Utsava 2026 - National Techno-Cultural Symposium Platform (Live and Ongoing)

- Developed a production-ready symposium platform with integrated payments, serving 8,281+ visitors, 56,662 page views, and actively maintaining its live deployment.
- Technologies: Next.js 15, TypeScript, Tailwind CSS, Supabase, Framer Motion

Explainable AI-Based Financial Guidance System (Ongoing)

- Designing an interpretable ML model with SHAP and counterfactuals, along with a dashboard improving user clarity and trust by 30-40% in prototype testing.
- Technologies: Next.js 15, TypeScript, FastAPI, Python, XAI, SHAP, Supabase

AI-Powered ICU Patient Flow Coordinator (GE HealthCare - Consultancy Project)

- Created an ICU bed allocation model using XGBoost and Logistic Regression, improving triage decisions by 25-30% and streamlining approvals to optimize patient flow.
- Technologies: Next.js 15, TypeScript, FastAPI, XGBoost, Logistic Regression, Python

AI-Powered Cyber Triage System for Real-Time Threat Detection

- Engineered a real-time DoS/DDoS detection system using Random Forest with automated IP blocking, reducing incident response time by 40%.
- Technologies: HTML, CSS, Random Forest, Flask, Cybersecurity, Windows Firewall Automation

AI-Driven Nocturnal Elephant Detection and Deterrence System

- Built a YOLOv8-based wildlife detection system achieving 90%+ low-light accuracy with multilingual alerts and IoT monitoring.
- Technologies: YOLOv8, Raspberry Pi, OpenCV, IoT, Twilio API

TECHNICAL SKILLS

AI/ML: TensorFlow, YOLOv8, CNNs, Random Forest, Explainable AI
Languages: Python, Java, C++, JavaScript, SQL
Frameworks: React, Next.js, Node.js, TypeScript, Tailwind
Cybersecurity: DoS/DDoS Detection, Log Analysis, Threat Mitigation
DevOps/Tools: Docker, Git/GitHub, Vercel, AWS, Supabase
Concepts: MLOps, API Integration, Cloud Deployment

ACCOLADES AND AWARDS

- Certificate of Recognition - GE HealthCare Consultancy - AI-powered ICU Patient Flow Coordinator.
- 1st Place - Human-Animal Conflict Hackathon - Developed AI-driven Nocturnal Elephant Detection System and received Rs.25,000 cash prize.
- Winner - Innovators Icon Award, Hack24 - AI-powered Lung Disease Prediction System.
- 1st Place - Protovision, Technovate 2025 - AI-powered Cyber Triage System.
- 1st Place - Paper Presentation, Youthzest 2024 - Technical paper on Neuralink.
- 3rd Place - Pitch Perfect, Business Plan - AI solution for Medical Kits Management.
- 3rd Place - Poster Presentation, Ecocity Pitch - AI-powered Adaptive Traffic Management.
- 3rd Place - Idea Pitch, AI Week 2025 - AI solution for Drone Defense and Attack.

CERTIFICATIONS

- IBM SkillsBuild - Artificial Intelligence Fundamentals and Web Development Fundamentals.
- AWS Skills Builder - Building Language Models in AWS.
- MongoDB University - MongoDB Basics for Students (13 Skill Badges).

CO-CURRICULAR ACTIVITIES

- Executive member of the Research and Innovation for Student Empowerment - SREC.
- Executive member of the Computer Society of India - Student Branch, SREC.
- Executive Co-Chairperson of Road Safety Vertical (2024-2025) - YI Yuva Club, SREC.
- Member of Phorartz Club, SREC.

DECLARATION

I hereby confirm that the information provided above is accurate and true to the best of my knowledge.

JAYAKISHAN B