

## JAYAKISHAN B

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### EXECUTIVE SUMMARY

I am a pre-final year Information Technology student with strong interests in Machine Learning, Artificial Intelligence, Full-stack Development and Cybersecurity. I have practical experience building data-driven systems and developing end-to-end solutions through projects and internships. I'm focused on continuous learning, improving my skills and contributing to meaningful real-world applications through experimentation, cloud deployment and collaboration.

### 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 %

### 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

### PROJECTS

#### **SREC Utsava'26 – National Techno-Cultural Symposium Platform**

- Engineered a production-grade web platform for a national symposium handling events, registrations, workshops and dynamic schedules
- Implemented responsive UI with real-time interactions and deployed scalable backend on Vercel.

**Tech:** Next.js 15, TypeScript, React, Tailwind CSS, Supabase, Framer Motion

#### **AI-Powered ICU Patient Flow Coordinator (GE HealthCare – Consultancy)**

- Developed an AI-driven ICU bed allocation system using predictive analytics and dashboards
- Optimized patient flow and ICU resource utilization through automated approvals

**Tech:** Python, FastAPI, Machine Learning, TypeScript

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

- Built a real-time cyber threat detection system for DoS/DDoS variants with automated IP blocking
- Applied ML-based log analysis to reduce incident response time

**Tech:** Random Forest, Flask, Cybersecurity, Windows Firewall Automation

#### **AI-Driven Nocturnal Elephant Detection and Deterrence System**

- Developed a YOLOv8-based real-time elephant detection system with adaptive alerts
- Enabled bilingual dashboards and IoT-based monitoring for conflict prevention

**Tech:** YOLOv8, Raspberry Pi, OpenCV, IoT, Twilio API

## **ADDITIONAL PROJECTS (ONGOING)**

- Explainable AI-Based Financial Guidance System
- FloatChat – AI-Powered Conversational Interface for ARGO Ocean Data Discovery and Visualization.
- SmartSEV – EV Monitoring platform for campus shuttles with live tracking and analytics.

## **INTERNSHIPS**

### **Mobile App Development Intern - Resilience Business Grids LLP**

Dec 2024 to Jun 2025

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

### **AI & Cloud Intern – Edunet Foundation & IBM SkillsBuild**

Sept 2025 – Oct 2025

- Completed a 4-week AI & Cloud virtual internship, working on end-to-end AI workflows and deployments.
- Implemented 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.

## **ACCOLADES & AWARDS**

- **1st Place – Human-Animal Conflict Hackathon** – Developed AI-driven Nocturnal Elephant Detection System and received ₹25K cash prize.
- **Certificate of Recognition – GE HealthCare Consultancy** – AI-powered ICU Patient Flow Coordinator.
- **1st Place – Protovision, Technovate'25** – AI-powered Cyber Triage System.
- **Winner – Innovators Icon Award, Hack24** – AI-powered Lung Disease Prediction System.
- **3rd Place – Pitch Perfect, Business Plan** – AI solution for Medical Kits Management.
- **1st Place – Paper Presentation, Youthzest'24** – Technical paper on Neuralink.
- **3rd Place – Poster Presentation, Ecocity Pitch** – AI-powered Adaptive Traffic Management
- **3rd Place – Idea Pitch, AI Week 2025** – AI solution for Drone Defence & Attack.

## **CERTIFICATIONS**

- **IBM SkillsBuild** – Artificial Intelligence Fundamentals & Web Development Fundamentals.
- **Snowflake** – Snowflake Cloud Data Platform Fundamentals.
- **Salesforce Trailhead** – Become an Agentblazer Champion (Certified Trailmix).
- **Celonis Academy** – Process Mining Fundamentals (3 Skill Badges).
- **AWS Skill Builder** – Building Language Models in AWS.
- **MongoDB University** – MongoDB Basics for Students (13 Skill Badges).
- **NPTEL** – Introduction to Industry 4.0 and Industrial Internet of Things.
- **Infosys Springboard** – Java Programming; Database and SQL.

## **CO-CURRICULAR ACTIVITIES**

- 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.