

## JAYAKISHAN B

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### EXECUTIVE SUMMARY

I am a pre-final year Information Technology student with strong interests in Machine Learning, Data Science, Artificial Intelligence, Full-stack Development and Cybersecurity. I have hands-on experience building data driven and intelligent systems, working with machine learning models and delivering end-to-end solutions that combine analytical thinking with sound engineering practices. With exposure to cloud-based deployment and collaborative development, I am motivated to learn, contribute and grow while solving real-world problems at scale. I enjoy extracting insights from data, experimenting and collaborating across teams to improve products.

### EDUCATIONAL QUALIFICATION

Year	Degree/Certificate	Institute/School	CGPA/Percentage
2023-Present	<b>B.TECH IT</b>	Sri Ramakrishna Engineering College	8.46 (till 4 <sup>th</sup> semester)
2023	<b>HSC</b>	SBOA Matriculation & Higher Secondary School	81.89%

### TECHNICAL SKILLS

**AI/ML:** TensorFlow, YOLOv8, CNNs, Random Forest, Explainable AI

**Programming:** Python, Java, C++, JavaScript, SQL

**Frameworks:** React, Next.js, Node.js, Express.js, Flutter, Tailwind CSS

**Cybersecurity:** Network Security, DoS/DDoS Detection, Threat Mitigation, Windows Firewall Automation

**Tools:** Firebase, Supabase, Docker, Git/GitHub, Jupyter, Vercel, AWS

**Concepts:** MLOps, Cloud Deployment, API Integration, Software Scalability

### 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 (1st Prize – Technovate'25)

- 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 (1st Prize – Human-Animal Conflict Hackathon 2025)

- 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

- FloatChat – AI-Powered Conversational Interface for ARGO Ocean Data Discovery and Visualization.
- SmartSEV – EV Monitoring platform for campus shuttles with live tracking and analytics.
- Explainable AI-Driven MLOps Framework for Fair Loan Decision-Making.

## 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.

### Student Intern – Edunet Foundation & AICTE (IBM SkillsBuild)

Sept 2025 – Oct 2025

- Completed a 4-week AI & Cloud virtual internship, working on end-to-end AI workflows and deployment fundamentals.
- Implemented cloud-based ML pipelines and 5+ hands-on labs, applying end-to-end AI workflows aligned with industry use cases.
- Earned certification through IBM SkillsBuild, covering AI lifecycle, cloud basics and deployment concepts.

## ACCOLADES & AWARDS

- **1st Place – Human-Animal Conflict Hackathon (2024)** – Developed AI-driven Nocturnal Elephant Detection System and received ₹25K cash prize.
- **Certificate of Recognition – GE HealthCare Consultancy (2025)** – AI-powered ICU Patient Flow Coordinator.
- **1st Place – Protovision, Technovate'25** – AI-powered Cyber Triage System.
- **Winner – Innovators Icon Award, Hack24 (2024)** – AI-powered Lung Disease Prediction System.
- **3rd Place – Pitch Perfect, Business Plan (2024)** – AI solution for Medical Kits Management.
- **1st Place – Paper Presentation, Youthzest'24** – Technical paper on Neuralink.
- **3rd Place – Poster Presentation, Ecocity Pitch (2024)** – 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.