JAYAKISHAN B

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EXECUTIVE SUMMARY

I am a passionate Information Technology student specializing in AI, Machine Learning and Intelligent Systems Engineering, with strong foundations in full-stack development and cloud-based deployment. Skilled in building end-to-end intelligent applications from model design to production rollout, combining data-driven insight with robust software engineering practices. Driven by curiosity and innovation, I aim to contribute to scalable, ethical and high-impact AI systems across research and industry.

EDUCATIONAL QUALIFICATION

Year	Degree/Certificate	Institute/School	CGPA/Percentage
2023-Present	**B.TECH IT**	Sri Ramakrishna Engineering College	8.46 (Current)
2023	**HSC**	SBOA Matriculation and Higher Secondary School	81.89%

TECHNICAL SKILLS

Programming: Python, Java, C++, JavaScript, SQL
Web & App Development: React.js, Next.js, Node.js, Express.js, Flutter, Tailwind CSS
AI/ML: TensorFlow, YOLOv8, CNNs, Random Forests, Explainable AI, Prompt Engineering
Tools & Platforms: Firebase, Supabase, Docker, Git/GitHub, Jupyter, Vercel, AWS
Concepts: MLOps, Cloud Deployment, API Integration, Software Scalability

PROJECTS

● **CareerForge – AI-Powered Resume Generator**
Built as part of the AICTE–IBM 4-Week Virtual Internship, this platform enables AI-enhanced resume generation using Next.js, React, Tailwind CSS and Supabase. Integrated Mistral API for prompt-engineered, ATS-friendly content creation with live preview, PDF/DOCX export and secure user storage.

● **Explainable AI-Driven MLOps Framework for Fair and Inclusive Loan Decision-Making**
(Ongoing)
Developing a fairness-aware, trustworthy AI system aligned with RBI guidelines and constitutional principles. Features SHAP-based explanations, multilingual support, real-time bias alerts and audit-ready dashboards for transparent and inclusive loan approvals.

● **AI-Powered Cyber Triage System for Real-Time Threat Detection**
Detects and mitigates DoS, DDoS, DRDoS and APDoS attacks using Zeek and ML models with real-time log analysis, visualization and automated IP blocking via an interactive dashboard.

● **AI-Driven Nocturnal Elephant Detection and Deterrence System**
Uses a custom YOLOv8 model for 24/7 elephant intrusion detection with multilingual Twilio alerts, real-time OpenStreetMap tracking and adaptive AI for energy-efficient wildlife conflict prevention.

● **TrackCrack – Railway Track Crack Detection System**
Developed a vision-based system using image processing and deep learning to detect cracks on railway tracks in real time. Designed for Smart India Hackathon with a focus on preventing derailments and enabling proactive maintenance.

INTERNSHIP

Resilience Business Grids LLP (RBG.AI)   December 2024 to June 2025 (5 weeks)

- Worked on a mobile query response system in Flutter featuring chatbot integration, media/file upload and user support functionalities.
- Designed as a side project to assist the company's main services, with planned integration across all platforms for streamlined support.

ACCOLADES

- **GE HealthCare – ICU Patient Bed Flow Coordinator (Consultancy Project)**

  Designed an AI-powered ICU bed allocation model, improving patient flow across departments and decision support.

- **1st Place – Human-Animal Conflict Hackathon (2025)**

  Conducted by TN Forest Department & SREC; developed an AI-powered elephant deterrence system in a 36-hour national hackathon. *(Awarded ₹25K)*

- **Winner – Innovators Icon Award, Hack24 (2025)**

  A 24-hour hackathon conducted by Dr. N.G.P Institute of Technology & Dr. N.G.P Arts and Science College, recognized for innovation and practical AI application.

- **1st Place – Protovision – Technovate'25**

  Conducted by the Government College of Technology, showcased an AI-powered Cyber Triage System.

- **3rd Place – Bronze – Idea Pitch, AI Week 2025**

  Presented an AI solution on Drone Defence & Attack, conducted by Sri Ramakrishna Engineering College, Coimbatore.

- **1st Place – Paper Presentation, Youthzest'24**

  Conducted by the Dept. of EIE & Social Development Club, SREC, presented an AI-enabled sustainable innovation.

CERTIFICATIONS

- **Salesforce Trailhead** – Become an Agentblazer Champion (Certified Trailmix).
- **AWS Skill Builder** – Building Language Models in AWS.
- **MongoDB** – Completed MongoDB Basics for Students Training with 13 skill badges.
- **NPTEL** – Introduction to Industry 4.0 and Industrial Internet of Things.
- **IBM SkillsBuild** – Web Development Fundamentals & Artificial Intelligence Fundamentals.
- **Infosys Springboard** – Java Programming (2022) & Database and SQL.

CO-CURRICULAR ACTIVITIES

- Executive member of the Computer Society of India – Student Branch, SREC.
- Executive Co-Chairperson of Road safety vertical – YI Yuva club, SREC.
- Member of Phorartz club, SREC.