

# RAJEEV KUMAR

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## PROFILE

Motivated Java Full Stack Developer with strong knowledge in Core Java, JDBC, Hibernate, and frontend technologies like HTML, CSS, and JavaScript. Seeking an opportunity to apply my skills in building efficient backend systems, integrating databases, and contributing to full-stack application development.

## EDUCATION

<b>B.E. in Computer Science &amp; Engineering</b> , Visvesvaraya Technological University, Karnataka CGPA-9.22	Dec 2021 – May 2025
<b>Senior Secondary School</b> , Holy Mission Sr. Sec. School, Muzaffarpur, Bihar Percentage-78.	Apr 2018 – Jun 2020

## TECHNICAL EXPERIENCE

<b>AI &amp; Machine Learning Engineering Internship – VTU</b> (Rooman • IBM • Wadhvani Foundation)	Oct 2024 – Feb 2025
<ul style="list-style-type: none"><li>Completed VTU-approved internship focused on Python, ML, DL, NLP, SQL, Flask, Cloud, and Analytics.</li><li>Built ML models including Logistic Regression, Decision Trees, K-Means, ANN, CNN, RNN.</li><li>Built Flask applications using SQLAlchemy, user authentication &amp; database integration.</li><li>Performed cloud model deployment using IBM Watson Studio, AutoAI &amp; IBM Cloud.</li><li>Worked with SQL + MongoDB, data pipelines, Power BI dashboards, and Linux + DevOps basics.</li><li>Scored high in assessments with 86% (Core) &amp; 76% (Non-Core).</li></ul>	
<b>VIZZHY, Bangalore</b> , AIML Intern Onsite	Jan 2025 – Apr 2025
<ul style="list-style-type: none"><li>Built an AI-powered Flutter app using RAG architecture for domain-specific responses.</li><li>Integrated Hanooman, OpenAI &amp; Gemini LLMs with FAISS vector search and SentenceTransformer embeddings.</li><li>Implemented dynamic query handling, source-linked answers, and an intuitive real-time chat UI with history.</li></ul>	

## PROJECT

### Cyber Vault: Intelligent Cyber Recovery System

- Tech:** Python, Twilio, YARA, Isolation Forest, Google Drive API, Flask
- Developed a real-time cyber recovery system that monitors desktop activity using Watchdog and sends instant alerts via Twilio during mass file deletions or renaming.
  - Designed a full-stack web interface with user authentication, file recovery (using structured JSON logs and secure cloud storage via Google Drive), time-based event visualization, and an integrated malware scanning engine using YARA rules and machine learning (Isolation Forest) for threat detection.

### Live Object Detection using YOLOv8

- Tech:** Flutter, FAISS, FastAPI, Hanooman API, SentenceTransformer
- Integrated the YOLOv8 model to detect and classify multiple objects in real-time.
  - Displayed detection results with bounding boxes and labels on the video feed.
  - Optimized the system for real-time performance to ensure smooth and accurate detection.

## TECHNICAL SKILLS

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

**Frontend Technologies:** HTML5, CSS3, JavaScript (ES6), React.js

**Java Technologies:** Core Java, OOP, Collections, Multithreading, JDBC, Hibernate

**Backend:** REST APIs, Spring

**Databases & Tools:** Oracle SQL, PL/SQL, MYSQL, Mongo DB

**Tools:** Git, GitHub, Docker

## HOBBIES & CREATIVE INTERESTS

- Painting & Sketching (develops creativity, patience, and attention to detail)
- Winner of **multiple drawing competitions**, demonstrating strong creativity and attention to detail