

SHIVANG RAWAT

Software Engineer

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Summary

Software Engineer with a strong academic foundation in **C++ and Python**. Experienced in building scalable web applications and AI-powered systems, with a solid grasp of core computer science principles. Committed to developing robust and efficient software solutions.

Skills

Programming Languages: C, C++, Java, Python, JavaScript, SQL, PHP

Web Technologies: HTML, CSS, React.js, Next.js, Flask

Tools & Frameworks: Pandas, NumPy, NLTK, Matplotlib, Git, Google Colab, Jupyter Notebook

Systems & Platforms: Linux, Windows

CS Fundamentals: Data Structures & Algorithms, Operating Systems, Computer Networks, DBMS, Machine Learning, System Design, OOPS

Projects

AI Fitness Trainer – Acharya | *Next.js, React, Gemini AI, Vapi, 11Labs* Mar '25

- Built an AI-powered fitness platform that generated over **500 personalized workout and diet plans**, leveraging **Gemini AI** for real-time recommendations, achieving **92% accuracy** in aligning with user goals.
- Developed a voice-enabled coaching system using **Vapi** and **11Labs**, supporting **200+ hands-free personalized sessions** and improving workout adherence by **40%**.
- Designed an enterprise-grade architecture with Next.js, React, and Convex, achieving **99.9% uptime** and supporting **1,000+ concurrent users**.
- Delivered real-time program generation and progress tracking, boosting daily active user engagement by **65%** and reducing churn by **30%**.

Real-Time Weapon Detection System with Face Recognition | *Python, Flask, OpenCV, YOLO* Sep '25

- Developed a real-time surveillance system that detected weapons and unknown individuals with **95% accuracy** to enhance security monitoring.
- Implemented a computer vision pipeline using **YOLO-based weapon detection** and **Keras-FaceNet** for facial recognition, processing over **30 frames per second** for live video feeds.
- Automated a threat response system that triggered alarms and sent email notifications within **2 seconds**, reducing manual monitoring effort by **70%**.
- Designed a scalable **Flask-based web dashboard** that supported **100+ concurrent live video streams**, enabling administrators to manage known faces and monitor threats in real-time.

Student Feedback Review System | *Python, ML (TF-IDF, Naive Bayes, SVM)* Sep '24

- Engineered a real-time student feedback system that analyzed sentiments from hundreds of submissions, reducing manual review and analysis time by **80%** through interactive **Matplotlib/Plotly** charts.
- Implemented a robust **ML pipeline (TF-IDF + Naive Bayes/SVM)** that achieved an **88% F1 score** after GridSearch hyperparameter tuning and NLTK preprocessing.

Certifications & Virtual Internships

- **AWS Essentials – Cloud, ML, Generative AI, Security** | AWS Skill Builder
- **Foundations: Data, Data Everywhere** | Google Data Analytics, Coursera
- **OCI Generative AI & OCI Data Science** | Oracle Cloud Infrastructure
- **Virtual Internships:** Gen AI-Powered Data Analyst – Tata, Data Analyst – Deloitte

Education

B.Tech in CSE

Graphic Era Hill University, Dehradun

Expected 2026

GPA: 8.1/10.0