

# RAJAT BISHT

SOFTWARE | CREATIVE  
TECHNOLOGY

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## SUMMARY

B.Tech Computer Science student specializing in Data Science, with a strong foundation in Object-Oriented Programming and Problem-Solving.

Experienced with Java, C, Python, and SQL, with hands-on exposure to game engines, embedded systems, and creative tools.

## EDUCATION

**2023 - 2027**

DIT University,  
Dehradun

**Bachelor of Technology**

*Computer Science Engineering in Data Science*  
8 CGPA

## SKILLS

- Languages:** Java, Python, C, SQL
- Libraries:** Pandas, NumPy, Matplotlib, Scikit-Learn
- Tools:** Adobe Photoshop, Premiere Pro, Blender
- Technologies:** Arduino, ESP32
- Game Engines:** Unity, Godot

## PROJECTS

### AI-Driven Fraud Detection System | Python, Streamlit, Scikit-Learn

- Architected a real-time fraud engine using Random Forest, achieving 92% Recall on imbalanced financial data via SMOTE and cost-sensitive learning.
- Engineered geospatial features using Haversine Distance to detect location anomalies (e.g., transactions >500km from home) and deployed an interactive Streamlit dashboard.

### ChromaEngine (Image Processing Engine) | Java, JavaFX, OOP

- Developed a high-performance, non-destructive image rendering application utilizing direct-memory bitwise operations on ARGB channels for real-time processing.
- Implemented custom 3x3 convolution matrices and spatial algorithms to automate and accelerate the visual asset pipeline for 2D pixel-art game development.

### Wireless ESP32 Smart Car | Embedded C, IoT, Hardware

- First Prize Winner at Youthopia (DIT University) for engineering a wireless-controlled bot with superior navigation and motion stability.
- Programmed ESP32 firmware in Embedded C to integrate motor drivers and GPIO controls for real-time responsiveness.

## CERTIFICATE

- Programming Fundamentals** - Duke University
- Introduction to Java** - LearnQuest
- Database Management Essentials** - University of Colorado
- Linux Fundamentals** - LearnQuest