

# Rishi Balodi

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## SKILLS

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- **Languages:** C, C++, Python, Java
- **Data and ML:** Tensor Flow, Scikit-Learn, SciPy, Pandas
- **Tools/Platforms:** MySQL, Power BI, Advance Microsoft Excel
- **Soft Skills:** Problem-Solving Skills, Team Player, Adaptability

## PROJECTS

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### Shopping Cart Discount System | [GITHUB](#)

Oct '25 – Dec '25

- Built a modular shopping cart using OOP with dynamic product handling and real-time cart updates.
- Implemented Strategy and Chain of Responsibility patterns to support flexible discount rules.
- Used smart pointers and Singleton managers to ensure safe memory management and extensible architecture.
- Designed extensible pricing rules enabling new discount types without changing core logic.

**Tech Stack:** C++, OOP, Design Patterns, STL

### Project: AI-Powered Multilingual Translation Web App (Gemini API) | [GITHUB](#)

Apr '25 – May '25

- Developed a Flask web app for real-time multilingual translation with automatic language detection.
- Integrated external AI API using secure environment configuration and structured REST requests.
- Built modular backend services with reusable translation logic and robust error handling.
- Implemented input validation and efficient request handling to improve reliability and UX.

**Tech Stack:** Python, Flask, REST APIs, Gemini API, JSON

### Climate Change Impact on Agriculture — Data Analysis & Visualization | [GITHUB](#)

Apr '25 – May '25

- Cleaned and preprocessed agricultural datasets using Pandas, handling missing values and normalization.
- Performed exploratory data analysis with Matplotlib and Seaborn to identify crop yield trends.
- Analyzed relationships between climate indicators and agricultural productivity using workflows.
- Created clear visualizations highlighting impacts of temperature and rainfall on crop output.

**Tech Stack:** Python, Pandas, NumPy, Matplotlib, Seaborn

## CERTIFICATES

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- Cloud Computing — NPTEL, IIT Kharagpur | [Certificate](#) Apr '2025
- The bits and bytes of computer networking | [Certificate](#) July '2024
- Hardware and Operating System | [Certificate](#) July '2024

## ACHIEVEMENTS

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- 100+ Coding Questions on Leetcode, GFG, sharpening problem-solving skills.
- Earned 50 days badges on LeetCode to demonstrate consistency.

## EXTRACURRICULAR ACTIVITIES

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- Participant — One India Initiative Program

## EDUCATION

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### Lovely Professional University

Bachelor of Technology - Computer Science and Engineering; **CGPA: 7.16**

Punjab, India  
August '2023 – Present

### R.P. Public School

Intermediate; **Percentage: 72.2%**

Kotdwara, Uttarakhand  
April '2021 – March '2022

### R.P. Public School

Matriculation; **Percentage: 84.4%**

Kotdwara, Uttarakhand  
April '2019 – March '2020