

ROHAN MALHOTRA

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Education

Thapar Institute of Engineering and Technology

Aug 2023 – Present

B.E. in Computer Engineering

CGPA: 8.07

Ahlcon Public School, CBSE

Apr 2022 – Mar 2023

Class XII

92.2%; PCM: 94.3%

Work Experience

Bharat Electronics Limited (BEL)

Jun 2025 – Jul 2025

Trainee – Computer Vision Systems

Ghaziabad, India

- Modeled a real-time accident detection pipeline using **YOLO + DenseNet** on the **KITTI dataset**, achieving **88% accuracy**.
- Improved F1 score from **0.85 to 0.92**, reduced false positives by **18%**, and optimized inference to **180 ms/frame**.

Oppia Foundation

Jan 2026 – May 2026

Project Owner & Collaborator

Remote

- Shipped **14+ merged PRs** in Oppia's large **Python/TypeScript** codebase, incorporating maintainer feedback through code reviews across frontend, backend, testing, validation, and developer tooling.
- When stricter TypeScript checks exposed type-safety gaps, migrated **25 files** by resolving nullability, callback typing, test-fixture, and dependent-service errors, enabling strict checks (**PR #25509**).
- To prevent malformed rich-text configurations from failing at runtime, built a general-purpose **linter** with unit tests covering valid, invalid, and skip paths (**PR #25561**).
- Standardized **13 backend API response payloads** to consistent `*.dict` contracts and updated corresponding frontend consumers and unit tests across **32 files** (**PR #25336**).

Projects

OmniSprint – AI Sprint Risk Intelligence Agent

[Source Code](#)

- Built an **AI-powered sprint risk agent** that analyzes roadmap data, GitHub issues, pull requests, deadlines, and workflow signals to identify delivery risks in open-source engineering teams.
- Developed a **FastAPI** backend with SQL-based querying and integrated GitHub/roadmap signals to support real-time sprint visibility, issue prioritization, and contributor follow-ups.
- Built a **React dashboard** showing risk status, reasoning, and targeted reminders, helping teams understand why a sprint item is at risk and what action is needed next.

Technical Skills

Languages: C++, Python, JavaScript, TypeScript, SQL, HTML, CSS

Backend: FastAPI, REST APIs, HTTP

Frontend: React, HTML, CSS

Core CS: Data Structures & Algorithms, Object Oriented Programming, Operating Systems, Computer Networks

Developer Tools: Git, GitHub, Jira, Figma

Honours and Awards

WeMakeDevs International Hackathon

2026

Top 50

OmniSprint

- Secured a **Top 50** position in an international hackathon by **WeMakeDevs** for building **OmniSprint**.

Amazon ML Summer School

2025

Selected Candidate

Amazon

- Selected for **Amazon ML Summer School 2025**, strengthening foundations in machine learning and structured technical problem solving.

Algorithmic Competitions/Achievements

- Rank 8** – Unstop's Top 100 Unstoppable E-School Leaders 2026.
- Selected among the **Top 100** in **ZS Campus Beats** and received a **Pre-Placement Offer (PPO)** from ZS Associates.
- Secured **Global Rank 57** in **TCS CodeVita Round 2 2025**.
- Secured **Global Rank 87** in **Yandex CodeRun Winter Challenge 2025**.