Student Placement Eligibility Checker (Python)

A Comprehensive Project Report

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Introduction

The **Student Placement Eligibility Checker** is a Python project created to automate the process of determining whether students are eligible for company placements. Traditionally, placement cells manually review each student's academic performance, skills, and backlog history, which is time-consuming and error-prone. This system eliminates such issues by automating the process and generating instant results.

The system can be used by colleges, training institutes, and placement coordinators to quickly evaluate hundreds of students. It also ensures transparency by applying the same set of rules for all students, without human bias.
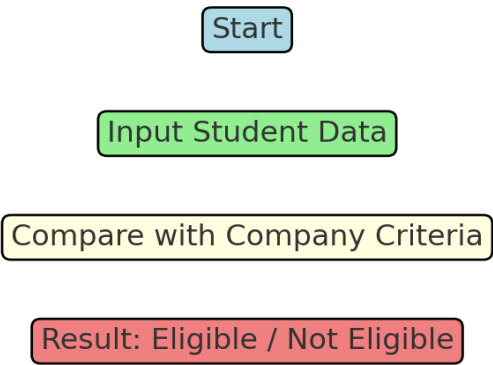
Objectives and Benefits

• To automate placement eligibility checks.

• To improve fairness by applying uniform criteria.

• To save time during large-scale placement drives.

• To provide visual insights using charts and graphs.

• To allow easy customization for different companies.

Benefits:
✔ Saves time
✔ Reduces manual work
✔ Transparent and fair
✔ Can scale to thousands of students
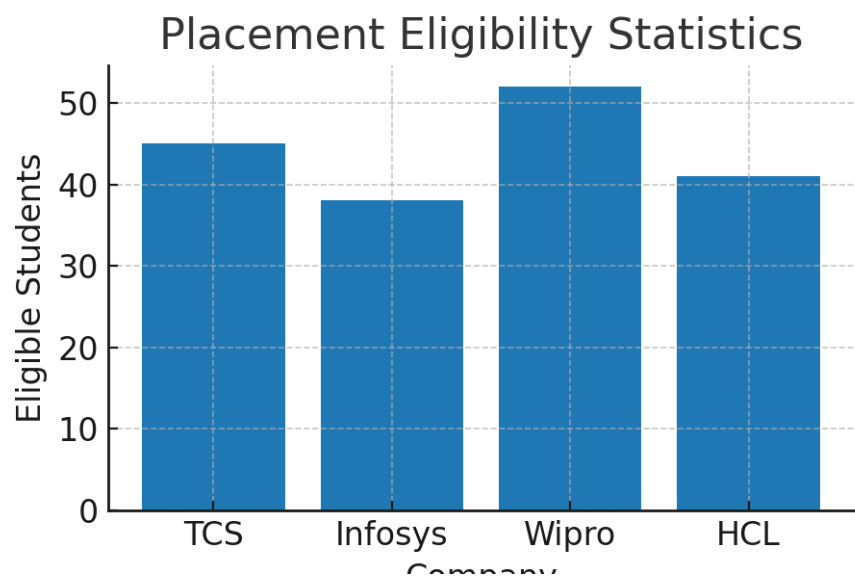✔ Visual representation of results

System Workflow

The placement eligibility checker follows these steps: 1. Input student academic data and skills. 2. Compare data with company-specific requirements. 3. Generate results: Eligible or Not Eligible. 4. Display placement statistics in charts and tables.
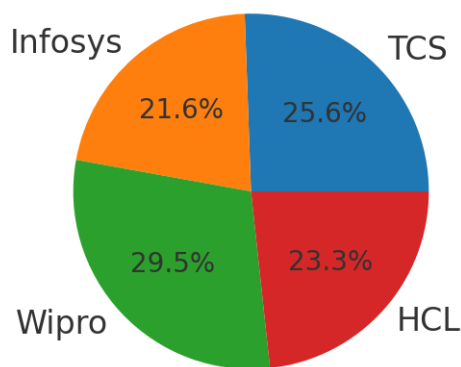
Start

Input Student Data

Compare with Company Criteria

Result: Eligible / Not Eligible

Sample Company Criteria

Company	Min CGPA	Allowed Backlogs	Eligible Skills
TCS	7.0	0	Python, Java
Infosys	6.5	1	C++, SQL
Wipro	6.0	2	Python, C
HCL	6.5	1	Java, SQL

Placement Analysis

Placement Eligibility Statistics

Distribution of Eligible Students

Future Enhancements

The system can be improved by adding: - Integration with Machine Learning models to predict placement chances. - A web-based dashboard for real-time updates. - Company-side portal for direct recruitment evaluation. - A mobile app for students to self-check eligibility anytime.

Conclusion

The Student Placement Eligibility Checker ensures that the placement process is fast, fair, and efficient. By automating eligibility checks, it reduces workload, improves accuracy, and provides useful insights for students and institutions alike.