

# Rahul Singh

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## Summary

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Analytical Computer Science undergraduate with a strong foundation in statistics, SQL, and programming. Seeking an opportunity at Cummins India to analyze complex datasets, create meaningful data visualizations, and present data-driven insights to support engineering and business decision-making.

## Education

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**Chitkara University** — Himachal Pradesh  
Bachelor of Engineering: Computer Science  
*Expected: July 2027*

## Skills

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**Data & Analytics:** Statistics (basic), Data Analysis, Data Interpretation  
**Programming:** Python, Java, C++, C  
**Databases:** SQL (queries, joins), MongoDB  
**Visualization:** Power BI (basic dashboards)  
**Tools:** Excel, Git, Linux  
**Testing:** Test case creation, basic validation techniques  
**Soft Skills:** Analytical thinking, communication, problem solving, teamwork

## Projects

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### Smart Blind Stick

- Analyzed sensor-generated distance data to detect obstacles and trigger alerts.
- Applied threshold-based logic to interpret sensor readings accurately.
- Evaluated system output to improve detection reliability and reduce false alerts.
- Tested multiple scenarios and documented observations to refine system behavior.
- Demonstrated data-driven problem solving to enhance user safety and mobility.

### Online Language Translator (Real-Time)

- Processed real-time speech data and converted it into structured text.
- Analyzed translation accuracy and response time across multiple test cases.
- Worked with structured data flows from external APIs for language processing.
- Performed testing and validation to ensure consistent and reliable output.
- **Tech Stack:** HTML, CSS, JavaScript, Node.js.

## Certifications

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- **AI Fundamentals Certification** — Exposure to data-driven models, machine learning basics, and practical applications.
- **Cyber Security Certification** — Understanding of secure systems, data protection, and threat prevention.

## Activities and Honors

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- Assisted in organizing health camps, awareness drives, and community service initiatives.
- Collaborated with teams to plan activities and manage execution efficiently.
- Demonstrated communication, adaptability, and teamwork in real-world environments.