



Saurabh Jain
Computer Science
Indian Institute of Information Technology, Vadodara
Specialization:None

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UG Second Year
Male
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Examination	University	Institute	Year	CPI / %
Graduation	IIIT Vadodara	IIIT Vadodara	2014	9.56
Intermediate	CBSE	K. V Noida	2013	90.4
Matriculation	CBSE	K. V Noida	2011	9.8

Computer Skills

- **Platforms** : Windows, Linux Ubuntu.
- **Programming Languages** : AutoHotkey, Bash, C, C++, Java, Python.
- **Tools** : Octave, MATLAB, Android SDK.
- **Web Designing** : HTML, CSS, XML, Bootstrap, JQuery, Javascript.

Projects

● **Matrica -Application:**

- An android application which performs operations and calculations with the user given matrices.
- Calculates -Transpose, Sum, Multiplication, Difference, Determinant, Inverse, Rank, Solve system of linear equation.
- Applied Gaussian Elimination method to solve system of linear equations.
- Working on calculation of Eigen values and Eigen vectors for the given matrix.

● **Race the car -Game:**

- Developed a strategic double player board game in python.
- Used various Mathematical concepts of Coordinate Geometry, Graph theory.
- Designed a graphical interface for the game using pygame.
- Written code for validating the moves, displaying current state of board, deciding the end of the game.

● **Shape Recognition-Tool:**

- A figure analyzer and synthesizer.
- Designed the graphical interface which can take user input from mouse in Autohotkey.
- scans a drawn figure and checks if it's square, rectangle, triangle, circle, line or invalid.
- it then redraws the perfect representation of that figure.
- Used Mathematical concepts like approximation, slope-form equations, distance formula and vectors.

Competitive Programming

- **Programing Contests**

- Active participant in online programming contests(OPC).
- Cleared the qualification round of Google Code Jam 2015.
- Got rating of 4523.42 in CodeChef Long Challenges.
- Won one silver medal in EpicCodeSprint ,one bronze medal in 101HackFebruary'15 at Hackerrank.

Extracurricular Activities

- Won Gold Medal in badminton (Under 17) at KVS Delhi regional Sports Meet.
- Attended International Environmental Youth Conference "Greening with Goethe" - the interdisciplinary environmental project held at Bangalore.
- Participated at Regional Level (Under -19) in Chess.
- Got the Goethe-Zertifikat A2: Fit in Deutsch 2,for language proficiency in German
- Went to JAPAN for 12 days under JENESYS, Japan - East Asia Network of Exchange for Students and Youths.