

# RITESH RAI

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## EDUCATION

**Ryan International School, Sanpada, Navi Mumbai**

**May 2020-May 2024**

**Relevant Coursework:** Mathematics, Physics, Chemistry, English, Computer Science.

**Grade 11 scores:** 85%

**School Board :** CBSE

## STANDARDIZED TESTING

SAT- 1430; English - 640, Maths - 790

## Online Courses

- “Teach Your Kids to Code: Learn to program Python at any age!” June 2022 - Jan 2023
- “Introduction to Engineering Mechanics” by Georgia Tech prof. Wayne Whiteman, Aug 2023 - Sep 2023
- “Introduction to Thermodynamics : Transferring energy from here to there” by University of Michigan Prof. Margaret Wooldridge, Sep 2023 - Oct 2023

## LEADERSHIP

**Innovator and Founder, EcoShred Bin**

**Dec 2022 - Oct 2023**

- Innovated & product engineered an eco-friendly dustbin which shreds metal cans & plastic at the point of disposal.
- In-built shredder reduces volume of waste, allowing for comparatively 80% more disposal area.
- The shredder is designed to naturally separate the liquid waste and reduce foul smell.
- Currently installed at Templ Group of institutions, Ghaziabad to assess impact.
- To be scaled to schools, colleges, residential complexes for smarter waste management
- Designed efficiently & user-friendly engineering: cleaned easily from the opening at the bottom.
- blades can be cleaned by the back panel opening; Motor and gear are also easily removable.

**Developer, Data Science project on climate change**

**May 2023 - September 2023**

- Analyzed how increase in temperature & carbon dioxide concentration contribute to global warming
- Collated findings in my research Paper titled ‘The impact of Carbon Dioxide on Surface Temperature Change leading to Climate Change’ under the guidance of Dr. Nischal Dwivedi SVKM NMIMS college, Mumbai.
- Research Paper published in Questioz - International Journal of High School Research (September 2023 issue)
- <https://www.questioz.org/post/the-impact-of-carbon-dioxide-on-the-surface-temperature-change-contributing-to-climate-change>

## ACADEMIC HONORS & AWARDS

- Awarded International Math Olympiad award- Gold medal and certificate, Class 7 (Round 1)(2018)
- Participated in the National Science and International English Olympiads, C (2018-2019)

## **EXTRACURRICULARS**

### **Competitions**

- International Astronomical Search Collaboration  
Made valuable contributions to observations of near-earth objects and main belt asteroids by participating in the analysis of images from PAN-STARRS

### **Music**

- Playing the keyboard since class 8
- Received Certificate of Distinction (grade1) from Trinity College London (2023), secured 97/100.
- Awarded Grade 3 Certificate of Distinction (grade3) from Trinity College London (2023), secured 98/100.

## **SKILLS**

- Active listener
- Basic Python skills
- Proficient with G-suite
- Comfortable utilizing research tools
- Comfortable with mysql