

ANANT MUNDRA

GRADE 12 · FOUNTAINHEAD SCHOOL · SURAT, INDIA

ENVIRONMENTAL SYSTEMS / ECONOMICS / APPLIED MATHEMATICS

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2,000+

TREES PLANTED

200+

VOLUNTEERS AT ONE DRIVE

3 SITES

VRKSHA MODEL EVALUATION

75

REUSABLE KITS SUPPORTED

ACADEMIC PROFILE

Fountainhead School | International Baccalaureate Diploma Programme, Grade 12

Higher Level: Mathematics: Analysis and Approaches, Physics, Economics

Standard Level: Chemistry, Hindi, English

Academic snapshot: 40/45 predicted IB | SAT 1450 (Math 790, Reading and Writing 660) | MYP eAssessment 50/56

RESEARCH AND INDEPENDENT INQUIRY

Project Vriksha | Founder and Research Lead

Environmental systems, geospatial analysis and decision support

- Developed a research-led framework for urban micro-forest planning, combining satellite-derived indicators, climate and soil datasets, field observations and species-allocation analysis.
- Evaluated the approach across 3 Surat sites; the project reported a biodiversity score of 0.9083 against 0.5417 for an NDVI-only baseline. These are project-reported model metrics, not measured citywide ecological outcomes.

Textile Waste and Circular Materials | Independent Research

Chemistry, industrial systems and sustainability economics

- Investigated a closed-loop polyester recycling concept using glycolysis and BHET recovery, alongside process requirements, unit economics and the feasibility of reintroducing recovered material into textile production.

Economics Extended Essay | IB Diploma Programme

Gujarat Solar Power Policy 2021 and Surat's synthetic textile cluster

- Designed a primary-research approach to examine how policy incentives, net-metering rules and capacity limits influence solar investment decisions among textile manufacturers.

Urban Air Quality Research | Independent Research

Surat PM2.5 patterns using satellite and ground observations

- Compared pollution patterns across high-density transport corridors and industrial zones using remote-sensing indicators and CPCB ground-monitor data, with attention to spatial-resolution and modelling limitations.

LEADERSHIP AND COMMUNITY IMPACT

Life2See | Founder

Youth-led community initiatives in education, health and sustainability

- Coordinated environmental and community projects in Surat, with cumulative records reporting 2,000+ trees planted. A major Miyawaki drive brought together 200+ participants to plant 300+ native trees.
- Led a separate crowdfunding initiative supporting 75 reusable sanitary kits for girls and women in Maharashtra and Karnataka.

Mitti Ki Awaaz | Eco Warrior Panelist

Youth environmental dialogue in collaboration with JK Foundation

- Invited as a youth changemaker to discuss environmental action alongside actor Manoj Joshi, other public voices and local community changemakers.

Eureka Science Society | Founder and Lead

Fountainhead School

- Created peer-led science learning sessions for younger students, using accessible demonstrations to make core scientific ideas more intuitive.

SUMMER SCHOOLS AND ACADEMIC PROGRAMMES

Plaksha University | Data Science Summer Programme

7-day programme | June 2025

- Studied statistics, machine learning, forecasting, data visualisation and econometric analysis; gained exposure to Stata and quantitative approaches to real-world datasets.

Wharton Global Youth Program | Future of the Business World

Admitted candidate

- Selected for a programme focused on business, innovation and the changing global economy.

Lumiere Research Programme | STEM Research

Scholarship recipient

- Completed research-oriented academic work in STEM; received the Lumiere STEM Essay Excellence Award and a \$750 scholarship.

Harvard Youth Lead the Change

Youth changemaker conference | approximately 90 participants

- Participated in a youth-led forum with other changemakers, contributing to discussions on community-centred solutions.

INDUSTRY EXPOSURE

CanvaLoop Fibre Private Limited | Industry Exposure Programme

Surat, India | 18 December 2025 to 1 January 2026

- Learned how agricultural waste can be transformed into textile-grade fibres, including hemp- and banana-based materials.
- Gained an overview of fibre processing, sustainable materials research and the connections between manufacturing and the wider textile supply chain.

Madhusudan Group | Industry Internship

Manufacturing and sustainability exposure

- Observed how a manufacturing organisation operates and explored industrial water-use challenges. A school design project proposed an integrated rainwater-harvesting and treatment system for textile operations.

AWARDS AND RECOGNITION

2026	Global Sustainability Awards Runner-up, SDG 15: large-scale Miyawaki forest plantation with Life2See in Surat.
2026	John Locke Global Essay Prize Public Policy shortlist; competition received 100,227 entries from 183 countries.
2026	Cambridge Re:Think Essay Competition Honourable Mention, Senior Division; reported top 10% of 15,000+ submissions.
2025	Lumiere STEM Essay Excellence Award Award recipient and \$750 scholarship.
2025-26	Fountainhead School Letter of Excellence Dedicated Service recognition; recorded as Student of the Year.
2023	Global Sustainability Awards Runner-up, SDG 6: industrial rainwater-harvesting and water-treatment concept.

ADDITIONAL ACTIVITIES

Student Council: Committee Head, Teacher-Student Relations; represented student perspectives within a school community of 300+.

Simply Living: Creator of a blog and podcast; project records report 153+ subscribers, 29,000+ impressions and 1,700+ views.

Community: SuratVan urban forestry; Innovate4India waste-segregation outreach and school Eco Clubs; Asaadharan Foundation educational outreach and community-event support.

Athletics: DAN 1 Taekwondo Black Belt with 11+ years of training; badminton and school sports participation.

Interests: Environmental systems, economics and applied mathematics.

RESEARCH-DRIVEN. COMMUNITY-ROOTED. BUILT AROUND SUSTAINABLE SYSTEMS.