VEER SHUKLA
1401, Vista 3, The Address, LBS Road, Ghatkopar W, Mumbai 400086, Maharashtra, India
Mobile no +91 91362 36860 Email shuklaveer13@gmail.com

EDUCATION

Oberoi International School JVLR, Mumbai, India (www.oberoi-is.org) 2020 - Present
- International Baccalaureate Diploma Programme (IBDP), Grade 11 and Grade 12
- Middle Year Programme (MYP), Grade 10

STANDARDISED TESTS

- SAT: 1540/1600; Maths 770; English 770 2024
- IELTS: 8/9 2024

ACADEMIC HONORS AND AWARDS

- CREativity in Science and Technology (CREST) Award for Physics project - Gold 2024
- Hong Kong International Mathematical Olympiad (HKIMO) - Silver 2024
- Singapore and Asian Schools Math Olympiad (SASMO) - Bronze 2024
- S.T Yau High School Science Award (Asia) for Physics project - First level cleared 2024

ENGINEERING RESEARCH AND EXPERIENCES

Research

Lumiere (www.lumiere-education.com) 2024
Title: Advancements in Radar Technology
- Undertook the analysis of the Role of AESA Radars in Enhancing Detection and Tracking of Low-Observable Targets

On My Own Technology(OMOTEC) (onmyowntechnology.com) 2024
Title: Optimising Rocket Propulsion Efficiency through CFD Simulation of Nozzle Designs
- Project awarded Crest Gold Award
- First level cleared for S.T Yau High School Physics Award
- Research paper sent for FLAME (Future Learning Aspects of Mechanical Engineering) conference organised by Amity University

Learning and Observations

Century Rayon, a Unit of Grasim Industries (www.centuryrayon.co.in) 2024
- Researched and observed chemical manufacturing processes, safety protocols, and plant operations, analysing data to create a comprehensive report and share findings with industry professionals, showcasing effective communication and strategic insights.

Summer Program and Innovation

Plaksha University Young Technology Scholars Programme (plaksha.edu.in) 2024
- Developed foundational programming skills, enabling advanced algorithm creation and microcontroller coding for signal analysis, while enhancing critical thinking and problem-solving abilities to address global challenges and foster innovative technological solutions.

AEROSPACE ENGINEERING RESEARCH AND EXPERIENCES

Learning and Observations

Tata Advanced Systems Limited (www.tataadvancedsystems.com) 2024
- Observed and learned about manufacturing processes for defense products including night vision goggles and radar systems, and presented research findings on product testing and technology to industry professionals, showcasing analytical and communication skills.

Summer Program and Innovation

Inspirit AI Scholars Program (www.inspiritai.com) 2024
- Used data from NASA's Kepler telescope to train AI models for exoplanet detection, gained experience in managing imbalanced data to enhance accuracy, and explored AI's potential in astronomy for discovering alien life and understanding the universe.

Online Courses

Mechanics: Motion, Forces, Energy and Gravity, from particles to planets, UNSW Sydney (The University of New South Wales) Course 2024
- Quantified motion using kinematic principles, applied Newton's laws to analyse forces and interactions, and explored work, energy, momentum, and gravity in both terrestrial and celestial contexts.

Astronomy: Exploring time and space, University of Arizona Course 2024
- Analyzed celestial phenomena using observational tools, explored stellar dynamics, exoplanets, and cosmic processes, integrating principles from various sciences to understand universe origins and the search for extraterrestrial life.

Flight mechanics: The basis, ISAE-SUPAERO Course 2024
- Gained proficiency in airplane parts and terminology, applied Newton's laws and energy concepts to flight dynamics, used a simulator to explore approach and landing, and solved flight dynamic problems, including glider manoeuvres.

Digitalisation in Aeronautics and Space Specialisation, Technical University of Munich Course 2024
- Learned about the transformative impact of digitalisation across the aerospace industry, space research, and aviation, including applications, challenges, and the increasing complexity of systems.

ENTREPRENEURIAL, BUSINESS AND ECONOMIC PURSUITS

Internship

MintOak (www.mintoak.com) 2023
- Shadowed the Head of Marketing, researched Indian digital payments, push notifications, market campaigns, and fintech gamification, and presented a summary of findings in a PowerPoint, showcasing communication and strategic insight.

Summer Program and Innovation

Columbia Business School VFA Global Entrepreneurship Program (bigrededucation.com/cbs-venture-for-all-global-entrepreneurship-program) 2023
- Led a collaborative business project under Columbia Business School faculty, enhancing leadership and communication skills, and directed classes on entrepreneurial thinking and leadership, while developing and validating enterprise models with peers.

COMMUNITY OUTREACH

Snehasadan Fundraising for Orphanages (snehasadan.org) 2023
- Core organiser of the Snehasadan fundraising initiative, raising 70,104 INR for orphanage education and living expenses, showcasing effective leadership and fundraising skills.

CAS Retreat in Jowhar Village 2023
- Engaged with Jowhar village residents to learn Warli art on coasters, trekked to a man-made dam to address water table issues, and hand-planted paddy to highlight the importance of monsoons for Indian farmers.

Digital Awareness Program 2024
- Created materials to raise technology awareness and taught senior residents to use the internet, make digital payments with UPI, and navigate apps like BigBasket, Wellness Forever, Zomato, and Amazon.

EXTRA CURRICULAR

Organising TEDx Event 2023
- Participated in ticket sales for a TEDx event, collaborating to overcome challenges, enhance sales techniques, and meet ticket sales goals.

Organising Science Fair to celebrate the National Science Day 2023
- Collated articles on emerging technologies in India and strategically placed posters to maximise event visibility and engagement.

Chandrayaan3 Poster Board Display 2023
- Updated the school community on Chandrayaan-3's successful lunar landing by researching and creating a detailed information board on the mission.

SKILLS

Software: Java, HTML, Arduino programming

INTERESTS

- Fitness: Developed endurance in swimming (2 km), cycling (15 km), and running (5 km).
- Reading: Enjoy military genre.
- Travel: Explored diverse cultures, food, and locations globally.