

Kiara Dhamecha

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EDUCATION

Dubai College | Dubai, UAE

Graduating Summer 2026

- **A-level:** Biology, Chemistry, Maths, Further Maths, EPQ
- **Predicted Grades:** Maths (A*), Biology (A*), Chemistry (A), Further Maths (A)
- **GCSEs:** 10 Subjects with 10 A*s (selected to take English Language in G10, and qualified to sit for Further Mathematics) & 1 A
- **SAT Score:** 1550 (single sitting), 790 Mathematics, 760 English

HONORS AND AWARDS

Pearson Edexcel High Achievers Award

August 2024

- Recognized for outstanding achievement as one of the top-performing students for GCSEs

The United Kingdom Mathematics Trust (UKMT), Gold Award

April 2024

- Selected to represent Dubai College in solving mathematical problems, demonstrating advanced problem-solving skills and performing effectively under time pressure

Biology Olympiad

February 2025

- Placed in the top three by demonstrating expertise in genetics, physiology, and ecology, solving complex biological problems and analyzing scientific data under timed conditions

Conrad Challenge (Space Center Houston)

October 2024 - March 2025

- Selected as a semifinalist for developing an innovative health solution, showcasing creativity, teamwork, and entrepreneurial skills in a global STEM competition

Dubai College Senior Mathematics Olympiad, Finalist

May 2025

- Finalist in the school's senior mathematics competition, demonstrating advanced mathematical reasoning, accuracy, and problem-solving under timed conditions

International Schools Mathematics Teachers Foundation Virtual (ISMVF)

November 2024

- Selected to represent Dubai College in competitive mathematics, solving complex problems under time pressure, extending beyond the standard curriculum

Biogenesis Olympiad

October 2023

- Solved complex theoretical and practical problems on genetics, molecular biology, and biochemistry, analyzing biological data and applying scientific principles to real-world scenarios

Duke of Edinburgh Award, Bronze Award

March 2023

- Completed a 2-day hike, organized charity fundraisers, building discipline and organizational skills

WORK EXPERIENCE AND RESEARCH

[PancreaSmart](#), Cofounder

November 2024 - Present

- Co-developed a non-invasive early detection test for pancreatic cancer using biomarker analysis, informed by research into disease progression and diagnostic delays, and collaborated with advisors to validate the prototype and plan for scalability, while currently pursuing a patent

Cancer Genomics Research, Lead Researcher

August 2025

- [Led research](#) on the question: "How are EGFR, KRAS, BRCA1 genetic markers associated with treatment response in cancer patients?", analyzing a 17k+ patient dataset, applying statistical modelling to evaluate biomarker impact, and authoring a paper synthesizing my findings

NMC Royalty Hospital Abu Dhabi, Cardiology Intern

December 2024

- Shadowed cardiologists Dr. Kamal Al Abdi and Dr. Saeed Jasem Alteneiji, observing procedures such as angiograms and ECG interpretation while participating in case discussions and patient consultations

Manor View Practice, Medical Intern

July 2025

- Completed an internship at an NHS general practice, shadowing clinicians and supporting patient-facing tasks to deepen understanding of primary care and clinical decision-making

Skyhop, Aviation Operations Intern

August 2025

- Selected to intern at India's first nationwide seaplane startup, where I optimized flight routes and applied quantitative methods to support aviation planning and enhance operational efficiency through time-distance-fuel calculations

Mediclinic Parkview Hospital, Medical Observer

June 2025

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- Attended clinical sessions across hospital departments, gaining exposure to acute care decision-making and exploring medical careers through physician-led discussion
Rhode Island Hospital, Interventional Radiology Intern July 2024
- Shadowed interventional radiologists, gaining insight into minimally invasive treatment through procedures such as vertebroplasty and patient consultations focused on communication and consent
Al Jalila Children's Speciality Hospital, Orthopedics Intern August - September 2023
- Shadowed orthopedists Dr. Ibrar Majid and Dr. Sattar Alshryda, observing surgeries and interpreting X-rays and MRIs, while assisting with fracture care and supporting patients throughout treatment
Empire Aviation Group, Aviation Intern July - August 2021 & 2022
- Developed an understanding of aviation operations and financial planning, including the analysis of aircraft charter costs and the management of flight crew expenses
Summer@Brown Pre-College Program, Research June - July 2024
- Collaborated on [dilated cardiomyopathy research](#), presenting findings to Brown University faculty using evidence from leading cardiology sources
Harvard Student Agencies Future Doctors' Level 1 Program, Research October 2024
- Presented on [Cystic Fibrosis and the CFTR mutation's systemic clinical impact](#)
Premed Projects, Virtual Post Mortem Work Experience November 2023
- Completed a virtual post-mortem program on pathology's role in diagnosis through dissection
MedSchoolCoach, Virtual Medical Shadowing 2023 - 2024
- Completed virtual shadowing across multiple specialties, gaining insight into clinical roles and decision-making through physician-led lectures and case-based learning
Thumbay Doctors Annual Meet, Attendee December 2024
- Attended a medical conference with thousands of healthcare professionals, exploring innovations in geriatric care and healthcare delivery through keynotes and panel discussions

COMMUNITY SERVICE AND PHILANTHROPY

- **[HEAL \(Health Education and Awareness for Labour\)](#), Founder** December 2024 - Present
- Founded a healthcare initiative to improve access for workers in the UAE by organizing free medical camps and partnering with hospitals to deliver culturally sensitive care and promote preventative health through long-term education and support in underserved communities
Dubai Center for Special Needs, Volunteer April 2024 - Present
- Assisted children with physical and cognitive disabilities in daily activities and adapted learning, contributing to development through patient-centered care alongside educators and therapists
Medical Camp Harmony House India, Volunteer December 2023 - Present
- Participated in a medical camp by supporting patient assessments, teaching at a local school, and donating equipment to help launch a sustainable healthcare center
ASDAN Qualified Student Liaison, Volunteer September 2024 - Present
- Mentored younger students to support wellbeing and academic growth through weekly sessions
Mathematics Tutor, Teacher September 2023 - Present
- Tutored GCSE math students, simplifying concepts and helping them improve exam performance
Pink Elefant Modelling, Volunteer October 2024
- Modeled for a clothing brand that supports the rescue and rehabilitation of elephants in Sri Lanka

SCHOOL CLUBS AND LEADERSHIP

- **MedConnect, Founder and Lead** September 2024 - Present
- Launched a weekly speaker series and led networking events to connect students with healthcare professionals, fostering career exploration and real-world medical insight
UAE Aspiring Medics Conference, Conference Lead January 2025 - Present
- Organized a national conference connecting healthcare professionals with students to explore medical careers and innovation, managing speaker outreach and coordinating event logistics
Dubai Medical Society, Lead and Coordinator April 2025 - Present

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- Oversaw logistics and outreach to streamline club operations and expand inclusive student participation in medical initiatives across many schools in Dubai
- Mathematics Society, Committee Member** September 2019 - Present
- Organized school-wide math competitions and designed activities for different skill levels, encouraging critical thinking and peer mentoring and confidence-building through problem-solving
- Biology Council, Member** September 2024 - Present
- Facilitated interactive workshops and peer discussions to spark interest in biology and its real-world applications, promoting engagement across various year groups
- Medical Society, Member** September 2022 - Present
- Led discussions on medical ethics while exploring admissions process and healthcare systems, and attended workshops on major illnesses to deepen understanding of clinical practice and patient care
- Choir, Member** September 2019 - Present
- Attended weekly rehearsals and performed at concerts, explored diverse musical genres while developing advanced vocal techniques and harmonization skills
- Netball, Player** September 2019 - Present
- Represented Dubai College in inter-school netball tournaments, developing leadership and strategic thinking through structured, regular training and competitive match play
- Model UN, Delegate** September 2021 - 2024
- Represented countries in Model UN conferences across Dubai, deepening my understanding of international relations while building confidence in public speaking and negotiation

SKILLS AND ADDITIONAL EDUCATION

- Private Pilot License Training** July 2022 - Present
- Training with a Cirrus aircraft, performing takeoffs, landings, taxiing, and stall recovery maneuvers, enhancing technical and operational piloting skills, including aviation communication
- Summer at Brown, Introduction to Medicine: Do You Want to Be a Doctor?** June – July 2024
- Attended lectures on topics, including medical ethics, neurology, and advancements in imaging technology, as well as panel discussions with healthcare professionals
- Future Doctors' Level 1 Program, Harvard Student Agencies** October 2024
- Completed training in medical science with a focus on organic chemistry and clinical case work, deepening my understanding of human biology and healthcare systems
- 'Introduction to Mathematical Thinking' Course, Stanford University** June 2025
- Completed a course under Professor Keith Devlin exploring abstract reasoning, and proof based problem-solving, enhancing mathematical maturity and analytical thinking for advanced study
- Young Doctors Weekend, InvestIN** February 2023
- Completed an intensive online medical program featuring simulated patient consultations and case discussions, gaining insight into clinical reasoning and ethical practice through interactive sessions
- LAMDA Singing Grade 8** May 2025
- Awarded distinction in LAMDA Grade 8 solo singing exam, refining vocal technique and stage presence through rigorous preparation, and gaining confidence through live performance
- Trinity Piano Grade 6** May 2024
- Completed Grade 6 Trinity College London piano exam, demonstrating advanced technique and musical interpretation, while building focus and discipline through sustained training over many years
- PADI Open Water Diver Scuba Diving Certification** August 2020
- Earned the Open Water Diver license after completing intensive training in underwater navigation, buoyancy control, and emergency response during open water dives
- University of Montana Global Citizen Scientist Certification, EPI** February 2023
- Conducted ecological research at Yellowstone Park, contributing to conservation efforts with scientists
- Space exploration camp at NASA** July 2022
- Participated in astronaut training simulations and space science workshops, collaborating on mission challenges that developed problem-solving and communication skills through real NASA scenarios
- Languages:** English, Hindi, Gujarati, Spanish, and Arabic