**Avni Yadav**

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**Education**

**Amity International School Abu Dhabi** Abu Dhabi, UAE

A-Level (Advanced Level) - General Certificate of Education Expected Graduation: June 2025

Predicted Grades: **Mathematics A\*, Chemistry A\*, Physics B**

IGCSE Grades (9 highest): **Mathematics 9, Chemistry 9, Physics 8, Biology 8, English 8, Economics 8, Psychology 8, Computer Science 7**

MOOC: CS50 Course from Harvard, Green Economy and Trade from UN, Discrete Mathematics from the Shanghai Jiao Tong University, Introduction to Artificial Intelligence from Great Learning

**Internships**

* **Mashreq Bank Global Headquarters, Dubai**  June 2024

Worked at the Big Data department, learning about data analysis tools like Power BI and Qlik to create a dashboard and visualise company data. Wrote queries using generative AI to extract data from customer datasets.

* **College of Business, Internship Program, Abu Dhabi University, Abu Dhabi** December 2023

Attended workshops and gained work experience on managing Business with university professors. Working with other teams, I learned about Entrepreneurship and various aspects of running a business like Marketing, Finance, HR and Operations.

**Research Publications**

* **Author, Research Paper - Published in iJournals** October 2024

Assessment of impact on Mangroves from Climate Change

DOI: <https://doi.org/10.26821/IJSRC.12.10.2024.121011>

*This paper assessed whether climate change has an effect on mangrove forests using the Google Earth Engine (GEE) computing platform and applying the 35+ year quasi-global rainfall CHIRPS dataset. The paper analyses the correlation between Precipitation and Evapotranspiration data with the climate variables to assess the effect of climate change on Al Zorah Natural Reserves mangrove in the UAE.*

* **Author, Research Paper - Published in IRJMETS** May 2024

Energy Conservation for the Projectile Motion Problems: Comprehensive Study and Analysis

DOI: <https://www.doi.org/10.56726/IRJMETS56584>

*Energy can neither be created nor can it be destroyed. It can only change from one form to another. This paper examined if the law of conservation of energy holds true at different points along the projectile’s trajectory using Python-based computer simulation coded with the appropriate rules and varying the input parameters.*

**Awards and Honors**

* **Academic Scholar,** Amity International School, Abu Dhabi (***For 7 consecutive years: 2018-2025****)*
* **World Finalist**, Junk Kouture – Youth Sustainable Fashion Dress Competition

2022 (***Represented Abu Dhabi*** *among 54 finalists selected from more than 5000 entries across major fashion capitals like Paris, London, Milan, New York etc.*)

* **Winner of school’s Governor’s Award Trophy for 2021-22 -** awarded to best boy and girl across the whole school for academic and extracurricular achievements
* **First Place**, UK Maths Tournament - Group Math Challenge

2022 (*Competing against 8 other schools in the UAE*)

* **Winner,** Dubai Institute of Design and Innovation (DIDI) Project Design Space Competition

2021 (***First out of over 4,500 students*** *from over 100 UAE Schools*)

* **Silver Prize,** “Amity Speaks” Oracy Competition for a talk on Body Language
* **Essay Shortlisted,** Northeastern University of London Essay Competition 2024 (*Received a* ***£1000*** *Scholarship*)
* **Emerald Award**, Language Perfect World Championship in Maths 2018 (***Top 1% of 350,000*** *competitors globally*)
* **Gold Award**, Language Perfect World Championship in Foreign Languages 2018 *(****Top 2% of 350,000*** *competitors globally)*
* Language Perfect Northern Championship, 2018 (**Credit Award**), 2017 (**Gold Award**), 2016 (**Credit Award**)
* The Duke of York Inspiring Digital Entrepreneurship Award, November 2019 (**Bronze Winner**)**,** December 2019 (**Silver Winner**)
* **Silver Award,** Interschool Sailing Competition, 2019
* **Member**, School Football Team, 2017-20

**Design Experience**

**DIDI Design Project Louvre Abu Dhabi** Abu Dhabi, UAE

**Architecture Intervention Designer (1st Prize out of about 4,500 entries)** May 2021

* Designed an outdoor intervention for the Louvre Museum, Abu Dhabi that engaged youth with the museum’s identity, narrative, architecture and collections.
* Gained skills in digital design and physical space design in the museum.

**Junk Kouture Worldwide Competition** Abu Dhabi, UAE

**Finalist Representing Abu Dhabi (54 finalists from about 5,000 entries)** Jan 2022 – Jan 2023

* Created an original dress drawn from my Indian heritage with different traditional patterns.
* Incorporate reusable materials such as plastics, cardboard and natural seashells in the creative design to promote the UN Sustainable Development Goals.
* Showcased my design at Etihad Arena, Yas Island, Abu Dhabi.

**Leadership and Activities**

**School Sustainability Leader** Abu Dhabi, UAE

**Leader** Aug 2023 – Jul 2024

* Established necessary goals to build and maintain a sustainable school with the Sustainability Cluster members.
* Initiated regular whole school beach clean-up activities.
* Ensured the entire school community works together to create a more sustainable environment by organising and presenting informative talks.

**Karate BLACK BELT (DAN 1)** Abu Dhabi, UAE **Sportsperson** May 2023

* Awarded Black Belt (Dan 1) by Impact Karate Centre through continuous training over five years.

**World EXPO 2021** Dubai, UAE

**Sustainability Performing Artist** May 2022

* Performed in a leading role for a musical and theatrical performance for the Young Stars Performance at Al Wasl Plaza, Expo City, Dubai.
* Collaborated with a team of artists to deliver a sustainability-themed dance performance.

**Skills & Interests**

**Skills:** Python Programming, using Google Earth Engine (GEE) for research

**Interests:** Creative Design, Karate, Reading