SHAURYA GOYAL

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Education

Indian Institute of Technology, Kharagpur   **2020 – Ongoing**
Bachelor of Technology in Ocean Engineering   *CGPA: 8.74*
Awarded a scholarship by the Institute

Grade 12 (HSC), score: 92%   **2020**
Grade 10 (ICSE), score: 95%   **2017**

Research Experience

IIT Kharagpur   **April 2021 – Ongoing**
Undergraduate Student Researcher   *Computational & Evolutionary Biology*
- I have conducted a literature survey to bring myself up to speed to the latest findings.
- The next step will be a phylogenetic analysis of cells using genomic data to understand whether an inisde-out or outside-in model is favourable and how did mitchondria originate in eukaryotic cells

Projects

News Feed Tracker   **April 2021**
- Wrote a program that monitors and filters online news and displays articles matching the user's interests.

Cipher Encoder/Decoder   **April 2021**
- Wrote a program that can encrypt/decrypt messages by two methods – shifting all letters by a key chosen by the user and the other by swapping the vowels with any letter of the alphabet.

Hangman Game & Word Game   **March 2021**
- Wrote code for a hangman game and a word game where the player decides the no. of rounds, gets allotted letters and a wildcard vowel to make words with, can swap letters and can replay the same round.

Snow Leopards   **October 2019 – January 2020**
- Documented snow leopard count and how settlements, poaching, diversity of flora and fauna, economic productivity of region, tourism etc. affected it.

Selected Relevant Coursework

- Numerical Analysis (Ongoing)
- Probability* (Ongoing)
- Ordinary Differential Equations
- Introduction to Biology
- Linear Algebra
- Waves & Oscillations
- Introduction to Data Science*
- Discrete Maths* (Ongoing)
- Multivariable Calculus

* indicates online semester-length course

Technical Skills

Programming: Python, MATLAB, C
Other: LaTeX, HTML, CSS, Autocad, MS-Office, 3D CAD Modelling

Volunteer Work

Teacher(Independent)   **October 2019 – December 2020**
- Taught 2 under privileged kids in my locality of grade 5 (to grade 6) math, science and English.
- Led to improved understanding and skill and their grade also improved by nearly 20 percent.

Leadership / Extracurricular

- Active member of Debating Society, IIT Kharagpur
- Selected as Times Scholar 2020 by Times of India Group and awarded a scholarship (Declined)
- Silver Medal in National Taekwondo Championship and 1st Dan Black Belt
- District level cricket player and captain of school cricket team with multiple wins

Other Interests: Guitar, Hiking, Running, Reading, Cooking, Rock music, Star Wars