

SHAURYA GOYAL

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Education

Indian Institute of Technology, Kharagpur

2020 – Ongoing

Bachelor of Technology in Ocean Engineering

CGPA: 8.74

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 inside-out or outside-in model is favourable and to understand how mitochondria originated in eukaryotic cells

Projects

Modeling Global Warming

May 2021 - Ongoing

- It will use regression analysis to model historic changes and predict future changes, potentially including the extremity of temperature

Robot Simulation

May 2021 - Ongoing

- It will simulate the movement and cleaning action of multiple robot vacuums in rooms with obstacles.

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

Snow Leopards (Documentation project)

October 2019 – January 2020

Selected Relevant Coursework

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|-----------------------------------|-------------------------------|---------------------------------|
| • Numerical Analysis (Ongoing) | • Introduction to Biology | • Introduction to Data Science* |
| • Probability* (Ongoing) | • M.L. in Genomics* (Ongoing) | • Discrete Maths* |
| • Ordinary Differential Equations | • Linear Algebra | • Waves & Oscillations |

* indicates online semester-length course

Technical Skills

Programming: Python, MATLAB, C

Other: L^AT_EX, 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