SHAURYA GOYAL

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Education

Indian Institute of Technology, Kharagpur

2020 - Ongoing

Integrated Master of Science in Economics

CGPA: 8.74

Micro - Specialization in Optimization Theory and Applications (Ongoing)

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

Research Experience

IIT Kharagpur

July 2021 – Ongoing

 $Undergraduate\ Student\ Researcher$

Graph Signal Processing

• Developing faster, more numerically stable and accurate algorithms for fast fourier transform and principal component analysis by exploiting the substructure in the graph matrix

IIT Kharagpur

April 2021 – Ongoing

 $Under graduate\ Student\ Researcher$

Evolutionary Biology

- Conducted a thorough literature survey
- Conducting a phylogenetic analysis of cells using genomic data to understand whether an inisde-out or outside-in model is favourable and to understand how mitchondria originated 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

• 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.

Selected Relevant Coursework

- Probability & Statistics
- Partial Differential Equations
- Monte Carlo Methods (PG)
- M.L. in Genomics*
- Intro. to Data Science*
- Linear Programming
- Psychology
- Numerical Analysis

• Discrete Maths*

- - * indicates online semester-length course from MIT-OCW

Technical Skills

Programming: Python, MATLAB, C

Other: LATEX, HTML, CSS, Autocad, MS-Office

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

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