Soham De

www.sohamde.in | soham.de_ug22@ashoka.edu.in

EDUCATION

ASHOKA UNIVERSITY
BSc. in Computer Science (Hons.)
May 2022 (Exp.) | Sonepat, India
Cum. GPA: 3.81 / 4.0
Major GPA: 4.0 / 4.0

DELHI PUBLIC SCHOOL, RUBY PARK
Grad. May 2019 | Kolkata, India
AISSCE: 95.5 / 100 (Best 4)

THE HERITAGE SCHOOL
Grad. May 2017 | Kolkata, India
ICSE: 98.2 / 100 (Best 5)

LINKS

Portfolio:// **sohamde.in**
LinkedIn:// **soham-de**
GitHub:// **actuallysoham**
Quora:// **Soham-De-6**
Facebook:// **soham.de.777**

COURSEWORK

UNDERGRADUATE
Discrete Mathematics
Applied ML and Data Science
Introduction to Computer Programming

MOOCS
Deep Learning Specialisation
Complete Web Developer 2020 (Udemy)

SKILLS

PROGRAMMING
Over 1000 lines:
Python • C++
Over 500 lines:
Java • Vanilla JS
C++ • R • LaTeX
Familiar:
Julia • Rust • Node.js • React.js

EXPERIENCE

ASHOKA UNIVERSITY | Undergraduate Research Assistant
May 2020 - Present
- Working under **Prof. Debayan Gupta** and **Prof. Gautam Menon** on the design and implementation of **scalable infrastructure** for generating accurate inputs to state-of-the-art **agent-based epidemiological models** in **Julia**.
- Working under **Prof. Debayan Gupta** in a team of 7 to analyze **COVID-19 data in India and US** and suggest novel **curve-fitting and ML-based** techniques to model the progression of disease without epidemiological models in **R** and **Python**.
- Working under **Prof. Debayan Gupta** and **Prof. Subhashis Haldar** on improving **Covalent Magnetic Tweezers** and associated software(s) for week-long studies of Protein chains. (currently on hold, due to COVID-19)

ASHOKA UNIVERSITY | Ministry of Technology
May 2020 - Present
- Currently working as the **Deputy Minister**, overseeing and contributing to multiple student-led Technical Projects, including (but not limited to):
- **Ashoka ChatBot**: A WhatsApp ChatBot providing quick assistance to all people on campus. Made in **Node.js** using **NLP** techniques.
- **Digitizing Projects**: Converting all manual registers into an online database
- Maintaining **websites** for the Ministry and Student Government

IIT KANPUR | Machine Learning Intern
Apr 2020 – Jun 2020
- Explored and fine-tuned state-of-the-art **CNN-based architectures** (ResNet, VGGNet, Inception ResNet etc) on the **Tiny ImageNet** dataset as a part of the capstone project
- Led a team of 6 to attain over **80% accuracy** (highest in class) on the Tiny ImageNet dataset

DPS RUBY PARK | Executive Member of Tech Club
Aug 2017 – Aug 2019 | Kolkata, India
- Conducted **coding workshops** for members of the club and developed an online platform in association with **CodeChef** for competitive coding within the club
- Started the **Annual Tech Fest** of DPS Ruby Park, to promote competitive coding and web development among premier schools in Kolkata. Served as **Co-Founder** and led **Public Relations**

PROJECTS

GENERAL MUTILATED CHESSBOARD | Mar 2020 – Apr 2020 | Sonepat, India
Designed multiple algorithms involving Hamiltonian Paths using **Recursive Back-Tracking** and made a WebApp in **Python, JS, Flask** for solving the Mutilated Chessboard Problem (and other variants), as the final project for the Discrete Mathematics course under **Prof. Goutam Paul** (ISI, Kolkata)

AWARDS

Year	Award	Description
2020	Dean's List	Spring semester at Ashoka University
2019	Dean's List	Monsoon Semester at Ashoka University
2017	National	ICPC For Schools Finalist