SOHAM DE

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FDUCATION

ASHOKA UNIVERSITY | SONEPAT, IN

BSc in Computer Science | 3.85/4.0 | 05/2019 - 05/2022

WORK

MPHASIS LAB | REMOTE

SUMMER RESEARCH SCHOLAR | 05/2021 - present

· Studying PPML Frameworks (BLAZE, SecureML etc) and preparing implementation reports

MEDIACRED | BANGALORE, IN

MACHINE LEARNING INTERN | 05/2021 - present

- · Conducting exploratory research into ML interventions for Fake-News detection
- · Implementing a novel Reliability and Credibility Engine for Online Media

ASHOKA UNIVERSITY | SONEPAT, IN

UNDERGRADUATE TEACHING ASSISTANT | 08/2020 - 12/2020

- Teaching Assistant for FC-0309 (Foundations of Computer Programming)
- Conducted weekly Discussion Sections and Office Hours. Was responsible for designing and evaluating assignments as well as conducting the Puzzle Day event
- Student Feedback: 4.75/5.0 (180+ enrolled students)

RESEARCH

BHARATSIM | BILL & MELINDA GATES FOUNDATION

SUPERVISORS: DEBAYAN GUPTA, GAUTAM MENON | 06/2020 - 10/2020

- Implemented ETL pipelines and synthetically replicated the Indian population using GANs
- Also added polygon-based querying on the synthetic population in O(nlogn) by optimising function calls for the Visualisation Engine

COVID-19 DATA ANALYSIS

SUPERVISOR: DEBAYAN GUPTA | 05/2020 - 08/2020

 Analysed COVID-19 data using novel curve-fitting and ML-based techniques to make low data-reliant predictions in R and Python

COVALENT MAGNETIC TWEEZERS

SUPERVISORS: DEBAYAN GUPTA, SUBHASHIS HALDAR | 02/2020 - 04/2020

 Worked on improving Covalent Magnetic Tweezers for week-long studies of Protein chains and redesigning associated software in C#

HONOURS

- DEAN'S LIST (Every Semester) | Signals a superior level of academic performance
- ICPC NATIONAL FINALIST | Finished 5th in ICPC for Schools 2017 (Gwalior Regionals)
- NATIONAL TOPPER | Scored 7th in India in ICSE 2017 (Board Exams)

Last Updated: 28/05/2021 1 of 2

SKILLS

LANGUAGES

Python | C++ | JavaScript | LaTeX | C | Julia | R | x86/MIPS Assembly

FRAMEWORKS & OTHER TOOLS

git | React | Express | Flask | Keras | TensorFlow | OpenCV

RELEVANT COURSEWORK

UNDERGRADUATE

Computer Security & Privacy | Linear Algebra | Probability & Statistics | Discrete Mathematics | Advanced Programming | Algorithms & Data Structures | Computer Organisation

WINTER & SUMMER SCHOOLS

Applied Machine Learning and Data Science (IIT Kanpur) | Advances in Practical Multiparty Computation (Bar-Ilan University; reviewed *online*)

Moocs

Deep Learning Specialisation | TensorFlow Developer Certification

OTHER ACTIVITIES

CS REPRESENTATIVE | ASHOKA UNIVERSITY

As the CS Student Representative, I work with the Department of Computer Science, Ministry of Academic Affairs (SG) and the Academic Advisory Board

CS SOCIETY | ASHOKA UNIVERSITY

I conduct bi-weekly Workshops and Events for 70+ active members on Development and Machine Learning

• WICS RESEARCH READING GROUP | ASHOKA UNIVERSITY

I've presented multiple ML papers (from NIPS, ICLR, PRML etc) to senior undergraduate and PhD Students at Ashoka University

• TECH CLUB | DPS RUBY PARK

I've organised workshops and contests for 80+ members with CodeChef

LINKS

- GitHub/actuallysoham
- · LinkedIn/soham-de
- · Twitter/actuallysoham

REFERENCES

- DEBAYAN GUPTA | Assistant Professor, Department of CS, Ashoka University
- SWAGAM DASGUPTA | CEO, Mediacred