

**SAMRIDHA SINHA**

Course : **B.E. (Hons.)**, Computer Science, 2024
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 CGPA : 8.60

**ACADEMIC DETAILS**

COURSE	SPECIALIZATION	INSTITUTE/COLLEGE	BOARD/UNIVERSITY	SCORE	YEAR
CLASS XII	SCIENCE	City International School, Wanowrie	CBSE	97.6 %	2020
CLASS X		The Bishop's Co-Ed School, Undri	ICSE	97.8 %	2018

Subjects / Electives	Data Structures and Algorithms, Parallel Computing, Database Systems, Operating Systems, Artificial Intelligence, Computer Networks, Object Oriented Programming, Discrete Structures for Computer Science
Technical Proficiency	Node.js, Python3, Linux, Django, Java, Salesforce.com Development, C Programming, JavaScript

SUMMER INTERNSHIP / WORK EXPERIENCE

Summer Intern - CS/IT, Tata Steel Limited	May 2023 - Jul 2023
Used Salesforce platform to display and edit client data of Tata Pravesh orders and services across India. Tech used: Aura, Apex, JavaScript.	
Summer Intern, Regional Remote Sensing Centre - West	May 2022 - Jul 2022
Developed WebSocket programming solutions for presenting rich VR images and presentations using low bandwidth and latency. Tech used: Node.js, Express.js, Pannellum.js	

PROJECTS

Compiler Construction - Computer Science	Jan 2023 - May 2023
Member of a 4 person group to develop a compiler for a given toy language.	
<ul style="list-style-type: none"> It is capable of syntax analysis, semantic analysis and code generation into x86 NASM. Group attained 2nd highest marks in project component. 	
Paper Analysis and Hyperparameter Tuning - Artificial Intelligence	Oct 2022 - Dec 2022
Analyzed a paper regarding conversion of ASL (American Sign Language) to text.	
<ul style="list-style-type: none"> Improved the hyperparameters used in the paper for low-compute environments, using learning rate range test and grid search. Built a confusion matrix to analyze the performance of the algorithm 	
Investigating Forensic-Related Issues in SDN - Networks and Security	Jan 2022 - May 2022
Study Oriented Project taken under Dr K Haribabu.	
<ul style="list-style-type: none"> Undertook a state-of-the-art analysis of the domain and researched into modern methods of SDN forensics. Described a novel method of threat analysis using Data Mining. 	

POSITION OF RESPONSIBILITY

Joint Coordinator, Joy of Giving Week - Nirmaan BITS Pilani	Jun 2022 - Present
Responsible for conduct of Joy of Giving Week - a week full of activities for Nirmaan beneficiaries and volunteers. Conducted T-shirt signings targeting 4000+ students of BITS Pilani	

EXTRA CURRICULAR ACTIVITIES

Teaching Assistant - CSIS Dept BITS Pilani
Teaching Assistant for Computer Programming and Data Structures and Algorithms. Assisted smooth conduction of labs and created explanatory videos for lab sheets of Computer Programming

SCHOLARSHIPS

Merit 40%	Sep 2021
Granted the Merit 40% scholarship by BITS Pilani for being among the top 3% academic performers in Year 1 Semester 2	
Kishore Vaigyanik Protsahan Yojana (KVPY)	Apr 2020
Granted the Kishore Vaigyanik Protsahan Yojana (KVPY) scholarship by IISc Bangalore for displaying excellent aptitude for scientific research	

TEST SCORES

TEST NAME	DATE OF EXAM	SCORE
BITSAT	Sep 17, 2020	Score:422/450
JEE Advanced	Sep 22, 2020	Rank: 2886