DARSH DUJRAI

📍 New Delhi

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EDUCATION

Course	Institute	Year of Passing	Result
B.Tech (CSE)	IIT Jammu	Expected 2025	7.06 CGPA (Till 5th Semester)
12th Standard	Govt. Sarv. Co-ed Vidyalaya	2020	95.60%
10th Standard	Naveen Public School	2018	91.60 %

SCHOLASTIC ACHIEVEMENTS

- Achieved first place at the Zonal level in CBSE Class 12th Examination

PROJECTS

ARMSim

- Designed a customized 32-bit floating-point number system called NFP;
- Defined a sign bit, 12-bit 2'compliment exponent, and 19-bit mantissa in the NFP system;
- Developed modular code and functions to optimize arithmetic operations of addition and multiplication on NFP numbers;
- Implemented the NFP system in a format distinct from IEEE-754;
- Integrated code to allow for efficient memory access in the NFP system.

Smart Dustbin with Waste Segregation Using Machine Learning

- Pioneered a revolutionary Smart Dustbin which segregates waste with an accuracy of 90% using pre trained ML model
- Assembled an ESP32 microcontroller and camera for real-time image capture
- Contributed to hardware integration and design of the bin container for optimal functionality and aesthetic appeal

Process Scheduling in OS ⎘

- Developed a C++ code for 5 different scheduling algorithms i.e. FCFS, RR, SJF, SRT and HRRN
- Built and deployed a web application with clear and intuitive user interface
- Generated timelines for each process and calculated metrics such as finish time and turnaround time
- Demonstrated strong problem-solving skills and technical proficiency by integrating various technologies
- Project link: https://processscheduling.onrender.com

SKILLS

Programming Languages	C++/C, Python, SQL, Javascript
Web Development	HTML, CSS
Analytical Skills	Problem-solving, Decision Making
Miscellaneous	Onshape
Technical Skills	Data Structures & Algorithms, Database Management Systems, Operating Systems, Linux

ADDITIONAL DETAILS

- Former member of the Coding club
- Volunteered in organizing G20 week
- Participated in the Ministry of Panchayati Raj's Drone Software Challenge at Inter-IIT Tech Meet 12.0, representing IIT JAMMU
- Represented the CSE department in Chess at the PRAVAAH (official sports fest of IIT JAMMU)
- Hobbies: Badminton, Cricket, Chess