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| **ASHU KUMAR JHA** |
| Email: ashu22115@iiitd.ac.in |
| DOB: October 05, 2003 |
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| **Education** |

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| **Indraprastha Institute Of Information Technology**  B.Tech(CSAM)  2022 – Present |  |
| **Bal Bharati Public School, Pitampura**  CBSE  2020 – 2022 | Percentage: 91.6 |
| **Bal Bharati Public School, Pitampura**  CBSE  2008 – 2020 | Percentage: 93.4 |

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| **Skills** |

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| **Expertise Area** | Web Development(Frontend-HTML,CSS,ReactJS), Python Automation |
| **Programming**  **Language** | Python, C/C++, Java, MySQL |
| **Tools and**  **Technologies** | Miro, VS Code, Canva, Git, GitHub, RStudio, JavaFX |
| **Technical Electives** | Introduction to Programming, Data Structures and Algorithms, Computer Organisation, Operating Systems, Advanced Programming, Algorithm Design and Analysis, Database Management Systems |

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| **Internship** |

**Pervasive Sensing & Intelligent Assistive Systems (PerSIsst) Lab(IIITD)**(Research)

Guide: Prof. Pragma Kar (Aug,24 – Dec,24)

Digital Signal Processing Project: Designed and implemented a system to generate chirp signals, analyze reflected audio, and accurately detect the presence and count of people in a room using advanced DSP techniques. Demonstrated proficiency in real-time signal analysis and data interpretation.

**Interpreting Machine Learning Papers Through Linear Algebra (IIITD)** (Research)

Guide: Prof. Sriram.K (Jan,25 – Mar,25)

Independent Project: Was able to explore the role of linear algebra in machine learning by studying the key mathematical concepts and implementing the research paper “Deep Learning: An Introduction for Applied Mathematicians”. The goal was to enhance understanding of ML fundamentals using a mathematical approach.

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| **Projects** |

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| [**STICKHERO GAME**](https://github.com/abhinavbagadi05/STICKHEROGAME.git)  Guide: Prof. Raghava Mutharaju | (Nov,23)  Team Size-2 |
| We created a replica of the Stickhero game using Scene Builder and JavaFX.  https://github.com/vaibhav7899ops/AP-PROJECT | |
| **LINUX SHELL IMPLEMENTATION**  Guide: Prof. Vivek Kumar | (Sep,23)  Team Size-2 |
| Implemented Linux Shell terminal internal and external commands in C using Linux system calls. User-based error handling was done, too. | |
| **CUSTOM ASSEMBLAR AND SIMULATOR**  Guide: Prof. Sujay Deb | (May,23)  Team Size-4 |
| designed and implemented an assembler and simulator for a custom Instruction Set Architecture (ISA). This tool takes the assembly code written for the custom ISA and simulates its execution on your machine. | |

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| **Positions of Responsibility** |

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| * OT member in ESYA (Tech fest of IIIT Delhi) | (Aug 2024) |
| * OT member in ODYSSEY (Cultural fest of IIIT Delhi) | (Jan 2023,2024) |
| * OT member in ASTRA (Sports Fest of IIIT Delhi) | (May 2024) |

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| **Interests and Hobbies** |

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| * I use chess as an escape(Rating - 1364 on chess.com) |
| * I have been reading a lot of books since childhood. |

Declaration: The above information is correct to the best of my knowledge.

ASHU KUMAR JHA

Date: July 7, 2024