

☎ +91 7889986055 | ✉ [davasrohit@gmail.com](mailto:davasrohit@gmail.com) | 💻 [rohitdavas.github.io](https://rohitdavas.github.io) | 🔗 [rohitdavas](#) | 🌐 [rohitdavas](#)

CGPA: 7.26/10

## Oct-Dec'20

- ImageEditor with functionality of Affine, Cartoon, Erosion, Rotation, Sharpen, Upsampling, Blurring etc
- Interface added for feature addition using plugin mechanism. Image processing done using OpenCV

#### GANs On Atari | *Independent* | *Python, PyTorch, Gym* |

May'20

- Implemented a simple Generative Adversarial Network with BCE loss to generate atari images
- Used Gym's atari framework to supply continuous data. Generated via both wrapper and non-wrapper method

### COMPETITIONS

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#### Bosch Route Optimisation | *Team of 5* | *Python, Google ORTools* |

Dec'19

- Silver in Hackathon over Vehicle Route Optimisation during Inter IIT Tech Meet'19 organised by Bosch
- Implemented solutions for optimisation by time and distance metric. Provided solution with visualisation

#### Innovate For IIT Hackathon | *Team of 3* | *Tensorflow, Django, Python* |

Nov'19

- 3<sup>rd</sup> among 20 teams in hackathon organised by Prithvi.ai. Lead the team. Built a Django prototype.
- Contributed the deep learning model for star-rating from (text) mess food reviews. Presented with visualization

#### MazeX: A maze solving bot | *Team of 2* | *C++, Arduino* |

March'19

- 1<sup>st</sup> in maze solving competition in Tech Fest IIT Jammu organised by Robotics Club,
- Built a bot for solving any type of maze in one traversal via left-hand rule using Arduino

#### PlutoX Hackathon | *Team of 3* | *C++, drone-programming* |

Dec'18

- 9<sup>th</sup> among 20 IIT's in PlutoX, a drone programming hackathon in InterIIT Tech'18, organised by drona-aviation.
- Completed 5 milestones of drone programming in 24 hours, toughest being flying drone in narrow corridor

### RELEVANT COURSEWORK

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#### Undergraduate Coursework

Artificial Intelligence; Natural Language Processing; Computer Vision; Parallel & Distributed Programming; Engineering Adaptive Softwares; Operating systems; Databases; Programming Languages; Algorithms; Data Structures etc.

#### Online courses



- **Robotics:** Pursuing [Introduction to Mobile Robotics](#) and [Robot Mapping](#) from [Autonomous Intelligent Systems](#). Pursuing [Robotics Specialisation](#) from Coursera.
- **Machine Learning:** Audited Stanford's [cs229-Machine Learning](#), and [cs230-Deep learning](#). Completed [Fundamentals Of Reinforcement Learning](#), [Sample Based Learning Methods](#), [AI for medical diagnosis](#), [Machine learning](#), [Deep learning specialisation](#): Convolutional Neural Networks, Improving Deep Neural Networks, Neural Networks and Deep Learning, Sequence Models, Structuring Machine Learning Projects on Coursera
- **Others:** Pursuing OSSU [data science](#) track [Algorithms Part 1](#). Completed [Learning how to learn](#)

### TECHNICAL SKILLS

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**Languages | Frameworks:** Python, Java, C/C++, MATLAB, SQL | PyTorch, Tensorflow, Qt, Blender, ROS, Gazebo

**Developer Tools:** Linux, CMake, Git, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse, CLion, Qt Creator

**Libraries:** Pandas, NumPy, Matplotlib, OpenCV, Sklearn, Scipy, etc.

### EXTRACURRICULAR

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#### Leadership

- Cultural Secretary, IIT Jammu'19-20. Started SMP (Senior Mentorship Programme) for the first time in college.
- Headed 30 member team for 10 day long Foundation Day Programme, IIT Jammu. [Official Post](#)
- Student Coordinator at Training and Placement cell'18-19.

#### Social Service

- Volunteered at Kritash, Social Club, IIT Jammu for teaching construction worker's children for a year.
- Volunteered for village survey in Jammu under the NSS.

### REFERENCES

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**Prof. Naveen Sharma**, Dpt. of Software Engineering, Rochester Institute of Technology, NY ✉ [nxsvse@rit.edu](mailto:nxsvse@rit.edu)

**Prof. Harkeerat Kaur**, Dpt. of Computer Science, Professor IIT Jammu, ✉ [harkeerat.kaur@iitjammu.ac.in](mailto:harkeerat.kaur@iitjammu.ac.in)

**Dr. Nils Hasler**, CEO, Researcher, The Captury, Germany, ✉ [hasler@thecaptury.com](mailto:hasler@thecaptury.com)