KUSHAGRA ARORA

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EDUCATION

- **Delhi Technological University**
  Bachelor of Technology(B.Tech) - Software Engineering

  Dec 2021 - Present
  CGPA : 8.16/**10**

- **D.A.V. Public School, Sector-37, Faridabad**
  Secondary School Certificate
  Senior Secondary School Certificate

  April 2007 - April 2021
  Percentage:**95.0%**
  Percentage:**95.6%**

SKILLS

- C
- C++ (Programming Language)
- MySQL
- Python
- ROS (Robot Operating System)
- Linux

WORK EXPERIENCE

Software Engineer | Team Inferno Jan 2021-Present
- Worked on the software subsystem of the Mars Rover prototype 'NOVUS'. Upgraded the present software stack and created GUI for multiple camera feed in a single screen without any lag in feed

PROJECTS

NAMBI- Autonomous Mars Rover Prototype (Team Project)
- Space exploration motor vehicle prototype that travels across terrain similar to mars with a robotic arm to manipulate with surroundings, controlled wirelessly from the base station. Major contribution towards mapping and localization for traversal
- Tech Involved: Python, tkinter, Pyqt4, Pyqt5, ROS (Robot Operating System), Arduino UNO, Arduino MEGA

Color and Shape Detector
- Used open source computer vision and machine learning library along with numpy to work on a large dataset to detect various shapes and colors present in the feed captured by the selected webcam
- Tech Involved: OpenCV, python, Numpy

ACHIEVEMENTS

- Won **Excellence Award** in **Project Management** at **International Rover Challenge (IRC) 2023** held in Presidency University, Banglore,India as Software Co-Head, Team Inferno DTU
- Currently among T**op 10 teams** out of 35+ teams which participated in the **International Rover Design Challenge** 2022, as member of Software Department, Team Inferno DTU
- Represented India as **finalists** in **University Rover Challenge (URC)** 2022 held in Utah, USA and positioned 26th out of 36 Teams
- Received **Merit Scholarship** for academic year 2019-2020 for scoring 95% in **Class 10th.**