

# ARKAJYOTI BASAK

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## EDUCATION

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**Thapar Institute of Engineering and Technology**

Bachelor of Technology in Mechanical Engineering

Patiala, India

2018 - 2022 (Expected)

## WORK EXPERIENCE

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**Google Summer of Code (GSoC)**

May 2021 - August 2021

JdeRobot - Universidad Rey Juan Carlos

- Extended all the drone exercises from ROS node to web-based template.
- Added new features and fixed existing bugs.
- 35+ PRs merged and one of the top 4 contributors.
- Link to the GSoC-blog

**Engineering Design Intern**

Feb 2021 - July 2021

La Fondation Dassault Systèmes

- Designed and analyzed a foldable motorcycle helmet.
- Selected among the top 4 projects out of 15+ from all over the country.
- Link to the recorded webinar

## PERSONAL PROJECTS

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**Reinforcement Learning/Robotics**

Python, PyTorch, C#, Unity 3D, socket, Qt, ROS, Gazebo

- **AI Learns to Park:** Developed a self-improving car parking game.
- **Drone Mapping:** Developed a GUI application to control a drone in Gazebo simulator.

**Natural Language Processing**

Python, PyTorch, pandas, NLTK, NLP Parser, T5-transformers, TF-IDF, ktrain

- **Split & Rephrase model:** NLP model that can break long sentences into short multiple sentences.
- **sentenceninja:** Published in PyPI that can split paragraphs into sentences.
- **Sentiment analysis:** Ranked 31 out of 1114+ contestants in this contest.

## TECHNICAL SKILLS

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**Programming Skills:** Python, C++, Bash

**Frameworks:** Git, ROS, Docker, OpenCV, PyTorch

**Familiar with:** HTML, CSS, JavaScript, C#, Java

## POSITION OF RESPONSIBILITY

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Member of JdeRobot and maintainer of RoboticsAcademy drone section

- Discussing, proposing, and implementing new features.

## PROFILES

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**HackerRank:** arkaj (Python 5\*, C++ 5\*)

**LeetCode:** arkaxdevil