ARKAJYOTI BASAK

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WORK EXPERIENCE

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

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

Programming Skills: Python, C++, Bash
Frameworks: Git, ROS, Docker, OpenCV, PyTorch
Familiar with: HTML, CSS, JavaScript, C#, Java

POSITION OF RESPONSIBILITY

Member of JdeRobot and maintainer of RoboticsAcademy drone section

- Discussing, proposing, and implementing new features.

EDUCATION

Thapar Institute of Engineering and Technology — Patiala, India
Bachelor of Technology in Mechanical Engineering — 2018 - 2022 (Expected)

PROFILES

HackerRank: arkaj (Python 5*, C++ 5*)
LeetCode: arkaxdevil