Nitesh Srivastava

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Education

•Indian Institute of Technology-Patna *July 2020 - present*
Bachelor of Technology - Mechanical Engineering; CPI: 8.34 Patna, India

•St. Thomas School *April 2019- March 2020*
Intermediate, CISCE - 92.75% Kanpur, Uttar Pradesh

Achievements

- **Specialist** on Codeforces with **max rating 1515**. Profile Link
- Best Contest Rank:
    1. **Atcoder ABC 279**: Secured **AIR 35** among 7700+ participants. Link
    2. **Codeforces Round 820**: Secured **Global Rank 555** among 11,000+ participants. Link
    3. **Codeforces Round 832**: Secured **Global Rank 1194** among 13,000+ participants. Link
- Google Kickstart Handle: HorridBear
    1. Kickstart Round C 2022: Secured Global Rank **735** among 15,000+ participants. Link
    2. Kickstart Round G 2022: Secured Global Rank **735** among 12,000+ participants. Link
- Reached till Round 2 of **Meta Hacker Cup** and secured a global rank of 2283 in round 2
- Ranked as top **0.6 percentile** out of more than 1.14 million candidates in **JEE Mains 2020**

Projects

•Analysis of SDG scores for 2020-21 by NITI Aayog, India for all states and UTs
Group Project (Feb '22-April '22)

- Analysed SDG 11, 12 and 13 csv file by Data Visualisation, **Hypothesis Testing** and **Machine Learning Model** using Python.
- For Hypothesis testing, Normalisation was first checked by **Shapiro-Wilk Test** and then performed **Two-Tailed T-test** to check whether Null Hypothesis can be accepted or not.
- Splitted the data into two parts-test data and train data. Performed **Linear regression** and **Support Vector Machine** for training of train data and obtained accuracy of around **70%** on the test data
- Github Repository Link

•Real-Time Crowd Surveillance Drone *September 2022 - current*
Under Dr. Atul Thakur and Dr. Ashwani Assam

- Used a **Nodejs** based library link to control Parrot AR 2.0 drone. Created a program using Nodejs using which could successfully control the drone by giving instructions through the terminal.
- Used **Python OpenCV** library for color and shape detection. Drone captures the real-time frames and refine it to detect the desired shape and colors and display the colors in bounded rectangles with the name of color.
- The final task was to **integrate Python and Nodejs**. This was done by creating a common file which served as output for python code and input for Nodejs program. Based on color detected, python code would write the instructions in the common file, which Nodejs program constantly monitors and executed the functions. Drone would give instructions to itself depending upon the colour of the sticker thus making it autonomous.
- Github Repository Link

Skills Summary

•Languages: C/C++, Python, JavaScript, JAVA
•Relevant Courses: Python Programming, Introduction to Data Science, Programming and Data Structures

Societies

- Member of Chess Club of IIT Patna. Rated 1772 on lichess and 1527 on Chess.com.
- Served as **NCC Junior Cadet** in High School and received **A** Certificate.
- Served as **NSS Volunteer** in College Second Year and organised various public activities.