

# GAURAV CHAUHAN

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## Skills

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C | Java | Python | Pandas | Data Analysis | Machine Learning | Tensorflow | Astropy | OpenCV | SQL | Git

## Experience

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**GirlScript Summer of Code** | Open source contributor

May'23 - Aug'23

- Pull request merged into the WORLD-OF-AI repo by CognitiveLab.
- Garbage Classifier: custom computer vision algorithm can classify garbage into 7 different kinds of materials, including organic, cardboard, glass, metal, plastic etc.
- Tech stack : python, OpenCV, Tensorflow

[https://github.com/CognitiveLab-tech/World-of-AI/tree/main/deep\\_learning/Garbage-Classifier](https://github.com/CognitiveLab-tech/World-of-AI/tree/main/deep_learning/Garbage-Classifier)

## Education

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**BTech in Computer science with Data science (ML&AI) by Upgrad**

2020- 2024

MAHARISHI UNIVERSITY OF INFORMATION TECHNOLOGY, NOIDA

## Hackathon Projects

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**Riddler AI**

Mar'23

*Brewing codes 23 by Upgrad and Muit Noida*

- A voice assistant study buddy, which will play game of Riddles on a educational topic
- Tech stack: python, gradio, openAI

<https://github.com/Gaurav0369/Riddler-AI>

**GAMMA-RAY SOURCES CLASSIFICATION AND SKYMAP**

Feb'23

*Enigma 23 By Astrax, Xpecto, IIT Mandi*

- Telescope data of cosmic Gamma ray sources, needed classification
- built logistic regression model to classify all the sub categories & Skymap plotted using astropy.
- Tech stack : python, numpy, pandas, matplotlib, seaborn, sk learn, astropy

<https://github.com/Gaurav0369/Gamma-ray-Sources-Classification-and-Skymap>

**CCD IMAGE REDUCTION**

Feb'23

*Enigma 23 By Astrax, Xpecto, IIT Mandi*

- reduce and analyze CCD data i.e. raw images of Type II supernova taken by a laser observatory
- Tech stack: python, numpy, astropy, matplotlib

<https://github.com/Gaurav0369/CCD-image-reduction>

## Extracurricular & Achievements

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**Top 20 % in Global Breakthrough junior challenge 2019**

- Participated in the 2019 Breakthrough Junior Challenge, creating a video titled "Wave Nature of Matter" to explain quantum particles using visual animations in under 3 minutes.
- The Breakthrough Junior Challenge is an annual student competition aimed at presenting scientific concepts engagingly and is sponsored by foundations associated with notable figures like Sergey Brin, Priscilla Chan, Mark Zuckerberg, Yuri and Julia Milner, and Anne Wojcicki.
- Partners in this competition include Khan Academy, National Geographic, and Cold Spring Harbor Laboratories.

**TEDxMUITNoida**

- Independent TEDx was dedicated to promoting mental health and well-being.
- As the Twitter manager for this event, I provided real-time updates on the talks and discussions, highlighting the importance of mental health and showcasing the latest research and innovative solutions to address mental health.