SOUNAK KUNDU

- a student and tech-enthusiast

+91 8420485730 sounakkundu2003@gmail.com

Sounak_kundu Soulo_21

Skills:

- Programming Languages: C,C++, Java, Kotlin
- Scripting Languages: Python, JavaScript
- Databases: MySQL
- Tools & Version Control: Git
- Frameworks & Libraries: Scikit-learn, TensorFlow
- Languages: Bengali, English, Hindi

Contributions:

Citizen Scientist – "One Million Galaxies" Pune Knowledge Cluster

- Classified 750+ galaxies in a large-scale astronomical image analysis project.
- Contributed to big data research, AI based classification, and data validation.
- Assisted in improving machine learning algorithms for galaxy identification.

Active Member –" Howrah Vigyan Chetna Samannaya "

- Organized Blood Donation Camps to promote community healthcare awareness and voluntary participation.
- Contributed to Cyclone Relief Projects in Sunderban, providing disaster relief assistance and logistics support.
- Actively participated in science awareness programs and health camps in underserved communities across West Bengal.
- Served as an official coordinator in Nature Study Camps, supporting environmental education and youth engagement.

Member – Cybercell Club | Bengal College of Engineering and Technology

- Engaged in cybersecurity awareness initiatives and ethical hacking discussions.
- Participated in workshops, training sessions, and cyber defense activities.

Academic Qualification :

- **B,TECH IN COMPUTER SCIENCE ENGINEERING**

  Bengal College of Engineering and Technology
  Durgapur, West Bengal [2022 - Present]
  CGPA - 8.1

  Accomplished course work in programming languages such as C++, DSA, OOPS & Python, as well as classes in Computer Architecture, Complier Design & OS.

Projects :

- **Astronomical Image Processing :**
  - Applied image processing techniques, including noise reduction, edge detection, and contrast enhancement for astronomical data analysis.
  - Utilized Python and machine learning for automated object classification in astronomical images.
  - Processed telescope data to identify exoplanets, stars, and galaxies, contributing to astrophysical research.
- **Star Type Prediction :**
  - Developed a machine learning model to classify star types using astrophysical data.
  - Implemented data preprocessing techniques to improve model performance.
  - Utilized Python, Scikit-learn, and statistical analysis to achieve high classification accuracy.
- **Hunting For Exoplanets:**
  - Developed a machine learning model to identify exoplanets using astronomical data.
  - Applied data preprocessing and classification techniques to enhance detection accuracy.
  - Utilized Python, TensorFlow, and NASA's Kepler dataset for model training and validation.
- **Predicting Star, Quasars, and Galaxies:**
  - Developed a machine learning model to classify stars, quasars, and galaxies.
  - Used Python, TensorFlow/PyTorch, and astronomical datasets for training.
  - Applied data preprocessing and feature engineering to improve accuracy.
  - Optimized model performance for better space object predictions.

Hobbies & Interests:

Astronomy
Camping
Football
Singing
Travelling
Table Tennis