

# Arup Sankar Roy

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## Education

**University Institute Of Technology (UIT),Burdwan**

*Bachelor of Engineering in Computer Science and Engineering . current CGPA : 7.2*

**Jalpaiguri Polytechnic Institute**

*Diploma in Civil Engineering . OGPA : 8.1*

Burdwan,West Bengal, India

*Aug. 2022 – Jul, 2025*

Jalpaiguri,West Bengal,India

*Sep.2020- Aug.2022*

## Experience

### Data Science Intern

August 2023 – August 2023

CodersCave Virtual Internship Program – CVIP,India

- **Conducted EDA** on **Global Terrorism Database** using Numpy, Pandas, Matplotlib, Seaborn, and Plotly. Utilized Choropleth maps, Bar Plots, Area Plots, Pie Charts, and Heat Maps for **insightful visualizations**, unveiling **security implications**.
- Performed **Email Spam Detection** utilizing **NLTK library**. Employed **text preprocessing**, feature extraction, and **machine learning techniques**. Achieved accurate classification, highlighting potential **spam emails**.

### Machine Learning Intern

August 2023 – August 2023

TechnoHacks EduTech, India

- **Diabetes Prediction:** Achieved **88% accuracy** using the **Random Forest Classifier** with **data visualization**.
- **Fraud Transaction Detection:** Attained **97% accuracy** using **CatBoost**, handling an imbalanced dataset with the **Imblearn library**.
- **Wine Quality Prediction:** Reached **91% accuracy** and **0.93 precision** with **AdaBoost** and **K Nearest Neighbor** algorithms.

## Featured Projects

**Junky:AI-Powered Junk Detection System** |Python,HTML,CSS,Java Script November 2023 - December 2023

Used Python Libraries :PyTorch,YoloV5,Numpy,Flask.

- Manually **annotated** dataset for trash detection.
- Trained the custom model on **YOLOv5** and observed astounding **accuracy and precision**.
- Prepared **flask web application** to seamlessly deploy and demonstrate the functionality of the trained model.

[Github Link](#)

**Energy Consumption Prediction Flask Application** |Python,HTML,CSS

August 2023 – September 2023

Used Python Libraries : Numpy,Pandas,Scikit-Learn,Flask.

- Fetched data from **kaggle**, processed and performed **EDA** .Created a model with **accuracy 99%** and saved in **pickle format**.
- Prepared **flask** application to run the model.and Generated an user friendly UI. [Github Link](#)

## Skills

**Data Analytics and Visualization Libraries** : Numpy,Pandas,Matplotlib, Plotly,Streamlit,Seaborn,Scipy.

**Machine Learning Libraries** : Scikit-Learn,PyTorch , OpenCV,NLTK.

**Programming Languages** : Python,Java, C, HTML, CSS,YAML,Flask.

**System Experience** : Linux, Windows.

**Softwares** : Microsoft Power BI,Microsoft Excel,Postman API Platform, Matlab.

**Databases** : MySQL.

## Achievements

Secured the 65th rank out of 600+ participants in Geeks for Geeks problem-solving at UIT, Burdwan.

Lead the team (Tensors) secured rank 5 out of 50+ teams in 'CodeBird HackWitz 2k22'.

Became the Tech Lead of ML/AI/DS in our Coding Club Code Bird UIT,CSE

## Profile Links



[Geeks For Geeks](#)



[Github](#)



[Linked In](#)