

# Arup Sankar Roy

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## Featured Projects

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### Energy Consumption Prediction Flask Application

August 2023 – September 2023

- Fetched data from kaggle, processed and performed EDA created model with accuracy 99% and saved in pickle format.
- Prepared flask application to run the model.
- Generated user friendly UI.

[Github Link](#)

### CAPM : Capital Asset Pricing Model Web-App

March 2023 – March 2023

Used Python Libraries : Numpy , Pandas , Streamlit , Plotly.

- Fetched data from pandas data reader, processed and performed EDA.
- Repaired streamlit application to run the model.
- Generated user friendly UI using Streamlit.

[Github Link](#)

## Skills

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- **Data Analytics and Visualization Libraries** : Numpy,Pandas,Matplotlib, Plotly,Streamlit,Seaborn,Scipy.
- **Machine Learning Libraries** : Scikit-Learn.
- **Deep Learning Libraries** : PyTorch , OpenCV.
- **Programming Languages** : Python,Java, C, HTML, CSS,Flask.
- **System Experience** : Linux, Windows.
- **Softwares** : Microsoft Power BI,Microsoft Excel,Matlab.
- **Databases** : MySQL.

## Experience

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### **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.

## Education

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

*Bachelor of Engineering in Computer Science and Engineering .*

Burdwan,West Bengal, India

*Aug. 2022 – Jul, 2024*