

ARUP SANKAR ROY

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EDUCATION

UNIVERSITY INSTITUTE OF TECHNOLOGY

Bachelor of Engineering in Computer Science| Current cgpa:7.2

Burdwan,West Bengal,India

Aug. 2022 – Jul 2025

JALPAIGURI POLYTECHNIC INSTITUTE

Diploma in Civil Engineering | ogpa:8.1

Jalpaiguri,West Bengal,India

Sep.2019 - Aug.2022

WORK EXPERIENCE

DATA SCIENCE INTERN

iNeuron Intelligence Pvt Ltd , India

Jan 2024 – Ongoing

Remote

- Implemented UNet for Knee MRI segmentation, improving disease spot identification accuracy.
- Leveraged PyTorch and Faster RCNN methodologies, amplifying detection capabilities and playing a key role in the evolution of diagnostic tools in medical imaging.

DATA SCIENCE INTERN

CodersCave Virtual Internship Program – CVIP,India

Aug 2023 – Aug 2023

Remote

- 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.

FEATURED PROJECTS

THE ENTITY : A REALTIME 3 PHASE ILLIGAL ITEMS MONITORING SYSTEM

Python|PyTorch|OpenCV|Yolov8|Flask|HTML|CSS|JS

Feb 2024 - Ongoing

- First phase achieves real-time detection of weapons,gambling elements,smoking,military vehicles.. etc from video, eliminates post video processing delays.
- Phase two introduces detections,segmentations, heatmap presentation from image of illigal items, for a deeper understanding, enhancing the analysis of image with an user friendly UI.
- The third phase ensures a seamless and efficient user experience for webcam-based detection.

[GithubLink](#)

JUNKY : AI POWERED JUNK DETECTION SYSTEM

Python|Yolov5|Flask|HTML|CSS|JS

Nov 2023- Dec 2023

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

HOUSEHOLD ENERGY CONSUMPTION PREDICTOR

Python|Scikit-Learn|Pandas|Flask|HTML|CSS|JS

Aug 2023- Sep 2023

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

SKILLS

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

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

Programming Languages : Python,Java, C,Flask.

System Experience : Linux, Windows.

Softwares : Microsoft Excel,Postman API Testing Platform.

ADDITIONAL

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.

Participated internal hackathon in Smart India Hackathon.

Profile Links: [Github](#) | [GeeksForGeeks](#) | [LinkedIn](#)