

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

INTELLIGENT RADIOLOGIST ASSISTANT

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

August 2023 – August 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

Feb 2024 - Ongoing

Python | PyTorch | OpenCV | YOLOv8 | Flask | HTML | CSS | JS

- Achieves real-time analysis of weapons, military vehicles, and anomalies in video frames, eliminating post-processing delays.
- Phase two introduces detections, segmentations, presenting heatmaps for a deeper understanding, enhancing the analysis of images of illegal items with a cool user friendly UI.
- The third phase features a sleek black theme, ensuring a seamless and efficient user experience for webcam-based detection. [GithubLink](#)

HOUSEHOLD ENERGY CONSUMPTION PREDICTOR

Aug 2023- Sep 2023

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

- Fetches data from kaggle, processes and performs 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, 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.

ADDITIONAL

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'.

Participated Internal Hackathon in Smart India Hackathon.

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

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