ARUP SANKAR ROY

+91 9679713408 | asrl20221078.cse.uit@gmail.com | DOB:14.11.2000 | PAN:FNWPR2905F | PORTFOLIO

EDUCATION

UNIVERSITY INSTITUTE OF TECHNOLOGY — Burdwan,West Bengal,India
Bachelor of Engineering in Computer Science| Current cgpa:7.17 — Aug. 2022 – Jul 2025

JALPAIGURI POLYTECHNIC INSTITUTE — Jalpaiguri,West Bengal,India
Diploma in Civil Engineering | cgpa:8.1 — Sep.2019 - Aug.2022

WORK EXPERIENCE

DATA SCIENCE INTERN — Jan 2024 – May 2024
iNeuron Intelligence Pvt. Ltd. , India — Remote

- Implemented TripleMRNet Architecture, utilizing AlexNet and ResNet18 to process MRI images from axial, sagittal, and coronal planes.
- Performed data preprocessing techniques including reshaping, normalization, and image augmentation to enhance model performance.
- Conducted in-depth analysis of tear types, providing insights into their severity and probability.
- Built a web application for doctors and patients to sign in and generate reports based on MRI analysis.
- Generated visualizations, such as bar plots and pie charts, for detailed analysis and interpretation of results.
- Provided comprehensive documentation and user guides to support application use and understanding.
  Github Link

FEATURED PROJECTS

THE ENTITY : A Real-time 3-Phase Illegal Activity Detect and Monitoring System — Feb 2024 – March 2024
Python|PyTorch|OpenCV|Yolov8|Flask|HTML|CSS|JS

- Phase 1: Achieves real-time detection of weapons, gambling elements, smoking and other illegal activities from video, eliminating post-processing delays.
- Phase 2: Introduces detection, segmentation, and heatmap presentation of illegal items from images, enhancing analysis with a user-friendly UI.
- Phase 3: Ensures a seamless and efficient user experience for webcam-based detection.
  Github Link

JUNKY : AI-Powered Junk Detection Web App — Nov 2023- Dec 2023
Python|Yolov5|Flask|HTML|CSS|JS

- 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.
  Github Link

HOUSEHOLD ENERGY CONSUMPTION PREDICTOR — Aug 2023- Sep 2023
Python|Scikit-Learn|Pandas|Flask|HTML|CSS|JS

- Fetched data from Kaggle, processed it, and performed EDA. Applied Huber Regressor and created a model with 99% accuracy, 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.
Programming Languages : Python,Java, C,Flask,Bash.
System Experience : Linux, Windows.
Softwares : Microsoft Excel.

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.(2023 - present)
Participated internal hackathon in Smart India Hackathon.
Profile Links: Github | GeeksForGeeks | GeeksForGeeks-2 | LinkedIn