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Aritra Raut

Data Science Enthusiast

click here for linkedin
click here for github

Currently pursuing M.Sc. in Big Data Analytics from RKMVERI, Belur. Disciplined and dedicated student with 2 major projects and several small projects experiences on computer vision fundamentals.

Projects

Vision Powered Book Cataloguing using YOLOv1 and PyTesseract **March 2021 — June 2021**

Dr. Sujoy Kumar Biswas (Director and Principal scientist, AIMP Labs; Visiting scientist, ECSU, ISI Kolkata)

- The system identifies books(as many as in the video frames) from short videos and extracts the texts written on it,and stores the details in the database.
- The model has been trained on a **self made dataset** consisting of 500 images extracted from 34 videos .

Harris Corner and SIFT Implementation **March 2021 — April 2021**

Br. Tamal (PhD, University at Buffalo, Buffalo, NY, USA)

- Implementing Harris Corner and SIFT algorithm with OpenCV, numpy in python.
- comparative study on both techniques using custom images.

Hybrid Image Production **March 2021**

Br. Tamal (PhD, University at Buffalo, Buffalo, NY, USA)

- Creating Hybrid Images by overlaying high pass features and low pass features of an image.
- Concepts used : Fourier Transform, Image Derivative.

EDA on Summer Olympics dataset **July 2021**

Dr. Sudipta Das. Ph.D. (Indian Institute of Science, Bengaluru) Assistant Professor,Department of Computer Science,RKMVERI, Belur

- tools used : R (ggplot), Python(Matplotlib,Seaborn)

Factor Analysis on a Running Event Dataset **May 2021**

Dr. Sudipta Das. Ph.D. (Indian Institute of Science, Bengaluru)

- Determining the Crucial factors that effects the ongoing event.

Comparative study of different Image Steganographic approaches **Nov 2018 – April 2019**

Dr. Bibek Ghosh , Assistant Professor, Dept. of Computer Science, RKMRC, Narendrapur

- Comparative Study of three approaches (LSB(Least Significant Bit), Tri-way PVD(Pixel Value Decomposition),Integer Wavelet Transformation)

Education

Master of Science, Big Data Analytics, RKMVERI, GPA : 8.33/10.00 **August 2020 — Present**
Bachelor of Science, Computer Science, RKMRC, CGPA : 8.54/10.00 (Highest of the Batch) **2017 — 2020**
Higher Secondary, Science stream, WBCHSE, percentage : 83.6 **2017**
Secondary, WBBSE, percentage : 85.4 **2015**

Analytics Skills

Machine Learning
Deep Learning
Data Engineering
Data visualization
Optimization Algorithms
Data Augmentation
Computer Vision

Languages & Tools

Python
R
C
HTML
JavaScript
CSS
MySQL
Neo4J
PySpark
Java

Experiences

- Participated in **Amazon ML Challenge, 2021**; Main focus : Feature extraction using BERT SentenceTransformers.