



# Dristanta Das

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## Social Network

dasdristanta13  
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## Languages

Python R

## Systems

Docker CVAT MySQL Neo4J

## Python Modules

Numpy Pandas Matplotlib  
TorchAudio Pytorch Scikit-learn

## Machine Learning

Regression Classification  
Cross-validation Naive Bayes  
Dimensionality Reduction K-Means  
Decision Tree Boosting

## Deep Learning

Multilayer Perceptron CNN RNN  
LSTM Transfer Learning

## Project

### Machine Learning

Feb–June,21' **2.5D Visual Sound**  
Binaural audio provides a listener with 3D sound sensation, allowing a rich perceptual experience of the scene. However, binaural recordings are scarcely available and require nontrivial expertise and equipment to obtain. We propose to convert common monaural audio into binaural audio by leveraging video.

### Computer Vision

Feb,21' **Hybrid Image Formation**  
Hybrid images are images with two interpretation. The interpretation changes with viewing distance.

Mar,21' **Harris Corner Detection and SIFT**  
The Harris Corner detector is a standard technique for locating interest points on an image.

Apr,21' **Hough Line and Circle Detector**

May,21' **Camera Calibration and Fundamental Matrix using RANSAC**  
The objective of this project was to improve upon image matching by leveraging epipolar geometry of a stereo image pair while applying RANSAC to reject poorly matched feature points.

### Exploratory Data Analysis

Sept–Dec,20' **Zomato Restaurants Data**  
Analyzing the best restaurants of the cities all around India

Nov,20'–  
Jan,21' **Player Data of FIFA21 Game**

## Education

### Study

2020–	<b>M.Sc. in Big Data Analytics</b>	RKMVERI
2017–2020	<b>B.Sc. in Mathematics</b>	Presidency University