# Sourav Karmakar


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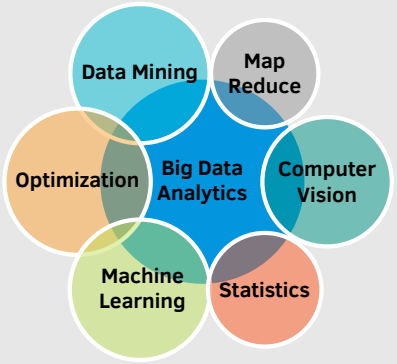
## Course Skills

**Overview**




### Programming and technical strength

**Python • R • MySQL • C • Java**

**Linux • Hadoop • PySpark • NoSQL**

LaTeX • **cvat • Google Cloud Platform**

## Education

**MSc., Big Data Analytics**
(Currently pursuing)
Ramkrishna Mission Vivekananda Educational and Research Institute
2020 - 2022 | West Bengal, India

**BSc., Mathematics** (CGPA: 7.83)
Banwarilal Bhalotia College
2017 - 2020 | West Bengal, India

## Projects

Present — **Automatic speech recognition online API integration for developers**
Summer internship

Apr 2021 - July 2021 — **Facial Keypoints Detection-Deep learning project** github_link

- Performed non-linear regression with CNN
- Optimized by tuning hyperparameters
- Deployed locally
- Used: Python
  html, css, javascript
- Packages: pytorch, numpy, pandas, matplotlib, seaborn, flask

Mar 2021 - Apr 2021 — **Bankruptcy Classification** github_link

- Linear Discriminant Analysis-Statistics Project
- Used: R
- Packages: ggplot2, dplyr, ggExtra

Feb 2021 May 2021 — **Computer vision projects** github_link

- Image Filtering and Hybrid Images
- Detecting Harris Corners and Matching Images(SIFT)
- Camera Calibration and Fundamental Matrix Estimation with RANSAC
- Used: Python
- Packages: numpy, opencv, matplotlib

Sep 2020 - Dec 2020 — **Exploratory Data Analysis** github_link

- Data visualization on zomato restaurants data
- Exploratory Data analysis on bank loan acceptance data
- Used: Python & R
- Packages: numpy, pandas, matplotlib, seaborn, dplyr, ggplot2, tidyverse

## Academic Strength and Interests

**Machine Learning, Deep Learning, Statistics**

- Regression, Classification, Clustering, Regularization, Decision Theory, Naive Bayes, PCA, KNN, Decision Trees, Bagging, Random Forest, Boosting, AdaBoost, SVM, Kernel Methods, Discriminative-generative
- Multi-layer Perceptron, Optimization Algorithms, CNN, Encoder-Decoder Models, Transfer Learning
- Computer Vision, Natural Language Processing
- Basic Statistics, Resampling Techniques, Factor Analysis, Multi Linear Regression

## Declaration

I hereby declare that the above particulars of facts and information stated are true, correct and complete to the best of my belief and knowledge.