VIBHUTI BANSAL

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SKILLS

- Machine learning
- Computer Vision
- Deep Learning
- Flutter Development
- Data Analytics

LANGUAGES, LIBRARIES AND FRAMEWORKS

C/C++, Python, Dart
Tensorflow,Keras,Sklearn,Opencv, Numpy,Pandas,Matplotlib
SQL, Firebase

VOLUNTEER EXPERIENCE

- Development Team
  DSC BVCOE (Nov 20- Current)
- EM Head Campus Blocks
  BVCOE(June 2020 - Current)
- EM Executive CB
  BVCOE(September 2019 -June 2020)

AWARDS

- 2nd Runner-Up
  Ideathon - BVCOE, henceforth selected in Top 45 teams for Ideastorm, E- Summit, IITR

OTHER ACTIVITIES

- IIT Roorkee Sociothon
- ML and AI based EY Techathon 2021
- Code19 Hackathon
- E-Summit , IITR
- SIH 2020

EXPERIENCE

Intern - Android Development & Machine Learning
Roboiotics Services LLP(August 2020 - October 2020)

EDUCATION

- **Bharati Vidyapeeth's College of Engineering, New Delhi**

B. Tech (CSE) 2019-2023
Aggregate CGPA (Till Sem 2) : 8.8

- **Seth Anandram Jaipuria School , Ghaziabad**

Class XII -95.2%
Class X - 10 GPA

PROJECTS

- **Indian Classical Dance Form Classifier —**

- Model to classify images into 8 Indian Classical Dance Forms. It uses Image Thresholding and Resnet50 as base model. The last 14 layers of resnet are used unfreezed and gives a f1 score of 0.91

- **Covid 19 Vaccine prioritizer using Clustering -**

- Dataset with 186 features including stats about demographics, population, hygiene, literacy, working status per district of India along with Covid stats were taken into consideration.
- Data Preprocessing, Feature selection and unsupervised learning (KMeans)were used in a pipeline
- shp data was used to visualise the result on India's map using GeoPandas

- **Canny Edge Detector -**

Implementation of Canny Edge Detection Algorithm from scratch .Its purpose is to reduce the amount of data in an image, while preserving the structural properties to be used for further image processing.It runs in five steps, Smoothing, Finding gradients, Non-maximum suppression, Double thresholding & Edge tracking by hysteresis.

- **Flutter App —**

- Uses Google Translation API for multilingual feature
- Uses a tflite type model to ensure oine classification of images through an app