

Vibhuti Bansal

Data Scientist / ML engineer



ResearchGate



VibhutiBansal-11



vibhuti bansal



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INTERNSHIPS

INNOMATICS RESEARCH LABS | DATA SCIENCE INTERN

April 2021 – July 2021

- Understood and implemented concepts of Statistics and made Music Recommender Systems using Python
- Used QQ plots, Box Cox Transformation and IQR to understand the data and Conducted p-test, z-test and hypothesis testing on it.

ROBOIOTICS SERVICES LLP | ML INTERN FLUTTER DEVELOPER

August 2020 – October 2020

- Optimized Deep Learning Model for offline deployment with App Compatibility using tflite. Made app UI from scratch with FireBase as backend.

ML INSTRUCTOR | WAC - WHAT AFTER COLLEGE

RESEARCH PUBLICATIONS

4-CLASS LUNG DISEASE DETECTION INCLUDING COVID | PYTHON

Accepted for 26th International Conference of Pattern Recognition

- Preprocessing technique for contrast enhancement along with correlation based metric undersampling
- Derived of a new custom loss function to reduce class imbalance.
- Training of various SOTA machine learning models on the derived dataset and obtaining 4 class classification F1 score 96 percent.

ABUSE DETECTION IN 13 LOW RESOURCE INDIC LANGUAGES | PYTHON

Submitted : Transactions on Asian and Low-Resource Language Information Processing

- Cleaning of dataset including transliteration, translation of dataset in order to extract maximum performance.
- Highlighting the importance of emoji in hate speech detection. Training transformer based models to obtain maximum F1 score.

ENHANCED DCNN FOR CLASSIFYING 8 ICD FORMS | LINK

Published : Applied Sciences as part of the Special Issue Human-Computer Interaction for Industrial Applications

- Model to classify images into 8 Indian Classical Dance Forms. It uses Image Truncated Thresholding and ResNet50 as base model.

PROJECTS

GEOSIS [LINK TO PROJECT]

- Dataset scraped from govt. sources for a time period of 20 years. Models were built on this data for future prediction of the climate cover.
- Visual analysis dashboard from google earth engine stats was utilised to observe the NDVI change as well as climate change over time in different regions of India.

COVID - 19 VACCINE PRIORITIZER USING CLUSTERING [GITHUB]

- Data Preprocessing, Feature selection, and undupervised learning(KMeans) were used in a pipeline. SHP data was used to visualize the results on India's map using GeoPandas.

SKILLS

PROGRAMMING

C++ • C • Python • Dart

LIBRARIES/Frameworks

Tensorflow • Keras • Scikit Learn • OpenCV • Numpy • Pandas • Matplotlib • GeoPandas • FireBase • Flutter • SQL

TOOLS/PLATFORMS

Git • GCP • Jupyter Notebook • VSCode • Android Studio • MySQL • Advanced Excel

EDUCATION

BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING

BACHELOR OF TECHNOLOGY (CSE)

2019 - 2023

CGPA: 9.22 / 10.0

SETH ANANDRAM JAIPURIA SCHOOL

Class XII: 95.2 %

Class X: 10 CGPA

PARTICIPATION

WIE HACK 3.0

1st Runner-Up WIEhack 3.0

EY TECHATHON 2

Selected in top 6 teams

CAMPUS BLOCKS BVP

Vice Chairperson