

# Dhyana Chidvilas Rottela

Third-Year, Computer Science degree of BITS Pilani, K.K. Birla Goa Campus

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“Until I get it right.”

## Education

### Birla Institute of Technology Science, Pilani (CGPA 8.18/10)

Sancoale, Goa

B.E. COMPUTER SCIENCE

Expected 2023

**Coursework:** Data Structures and Algorithms, Foundations of Data Science, Machine Learning, Deep Learning, Statistical Inference and Applications, Applied Statistical Methods, Probability and Statistics, Linear Algebra, Operating Systems, Database Systems, Object oriented Programming, Discrete Mathematics, Theory of Computation, Computer Programming, Principles of Programming Languages.

## Projects

### Interpretable CNN

BITS Goa

DEEP LEARNING COURSE PROJECT

May 2022

- The project aims to build an interpretable CNNs where the filters are more semantically meaningful compared to the traditional CNNs.
- The comparison of conventional And interpretable versions of Alexnet and VGG-16 show that introducing interpretability does not lose any accuracy in classification while enhancing the interpretability at minimal cost.
- The code was written using pytorch libraries, Python.
- **Website Link:** Interpretable CNN

### Covid-19 Forecasting using NeuCube

BITS Goa

PROF. BASABDATTA SEN BHATTACHARYA

Dec 2021

- Predicted the number of people infected with COVID-19 using **Neucube software**. This report documents the process of sourcing, preparing, cleaning and formatting the covid-19 dataset so that it can be fed into Neucube for **predicting the third wave of Covid-19**.
- Built the model and **checked for any outliers** in the state-wise data. Tried building the model with **different spike-encoding algorithms (threshold representation, step forwarding, moving window, bens spiker algorithm)**. Out of which, the first 3 encoding algorithms performed better than the later.

### Website Portfolio

BITS Goa

PERSONAL PROJECT

May 2021

- The Website was made using **HTML, CSS** and few component templates from **Bootstrap**. I have learnt **web-design (Figma) and front-end development** in this process.
- **Website Link:** [dhyanachidvilas.github.io](https://dhyanachidvilas.github.io)

## Skills

**Softwares:** Excel, Minitab, Adobe Photoshop, Adobe Illustrator.

**Programming:** C++, Python, MySQL.

**Languages:** English, Hindi, Telugu, Kannada.

**Non-Tech :** Graphic Design, Photography, Video-editing.

## Affiliations

### Database and Management Systems

BITS Goa

TEACHING ASSISTANT

Jan 2022 - present

Responsible for **conducting tutorials, answering queries** and **holding doubt solving sessions** for enrolled students.

### Enactus BITS Goa

BITS Goa

MARKETING HEAD

2021 - 2022

Leading a group of Graphic designers and Content-writers to guide them, **create content and increase engagement** on social media platforms.