

# Dhyana Chidvilas Rottela

Final-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

Sancoale, Goa

B.E. COMPUTER SCIENCE MAJOR, DATA SCIENCE MINOR

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, Computer Programming.

## Work Experience

### Amazon

Bangalore, India

SOFTWARE DEVELOPER INTERN

May 2022 - Jul 2022

- Implemented UI changes to the compliance classification website to **reduce the classification time**.
- Worked on the implementation of **Submit Work API redesign**. Implemented a different routing for large requests which has a size greater than the API gateway payload limit, 10MB.

## Projects

### Language Detection using Hyper-Dimensional Computing Methods

BITS Goa

LABORATORY PROJECT UNDER PROF. KUNAL KORGONKAR

Jan 2022 - Dec 2022

- Exploring hyper-dimensional methods to solve deep learning problems.
- Achieved 90% accuracy in detecting latin-based languages.
- The languages which were incorrectly predicted were also quite similar to the ground-truth language.
- The Model also proved to be robust with a decrease in just 0.1% while changing 15% of the data.

### Video-Based Gait Analysis

BITS Goa

LABORATORY PROJECT UNDER PROF. TANMAY TULSIDAS VERLEKAR

Aug 2022 - Dec 2022

- Improved the dataset quality by cutting the current data with respect to gait cycles in a moving window fashion.
- Build a model for the detection of Gait disorders.
- Currently working on interpretability of the model.

### 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.
- Website Link:** Interpretable CNN

### Website Portfolio

BITS Goa

PERSONAL PROJECT

May 2021

- Designed in Figma, developed in **HTML, CSS** and few component templates from **Bootstrap**.
- Website Link:** dhyanachidvilas.github.io

## Skills

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

**Programming:** C++, Python, MySQL, React.js, Java, GitHub.

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

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

## Affiliations

## ASCII BITS Goa

PROJECT INSTRUCTOR

*BITS Goa*

*Aug 2022 - Dec 2022*

- Responsible for providing them with a problem statement, timeline and guiding them on the learning and problem solving.
- The project aims to build a model which could generate realistic art images from primitive art.

## Database and Management Systems

TEACHING ASSISTANT

*BITS Goa*

*Jan 2022 - May 2022*

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

## Enactus BITS Goa

MARKETING HEAD

*BITS Goa*

*August 2021 - May 2022*

- Led a group of graphic designers and content writers to **create content and increase engagement** on social media platforms.

# Competitions

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## Analytica : Data Analysis Competiton

*ICAR-NAARM, Hyderabad*

WINNERS

*Sep 2022*

- Developed **a tool to analyse and compare brands' performance** with the data provided.
- Invited to ICAR-NAARM campus at hyderabad for the final round. We won the **first prize with a cash prize of Rs. 10,000**.

## Zeta Hackathon

TOP 50, ALL OVER INDIA

*Remote*

*Jul 2021*

- Proposed a solution **making investing easy and less risky**.
- Prototype of Z-coins was introduced.
- My team was one of the **top 50 teams from all over India**.